

THE ARCHITECT & BUILDING NEWS

13 JANUARY 1960

VOL. 217

NO. 2

ONE SHILLING WEEKLY

- CORBY CIVIC CENTRE COMPETITION
- A.G.I.P GARAGES, ITALY
- CURRENT MEASURED RATES

PUBLISHED IN LONDON SINCE 1854



Allocating some of your interior painting to winter months means — more labour immediately available; speedier service; easier to plan paint schedules; keener prices with overtime rates unnecessary; and of course the finest finish possible with modern quick-drying products of British Paints Limited.

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are not
keeping up
with the times
...don't know
about
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POLYURETHANE
LACQUER



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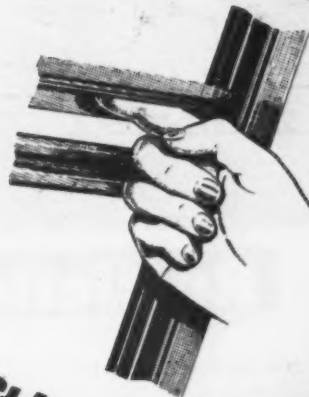
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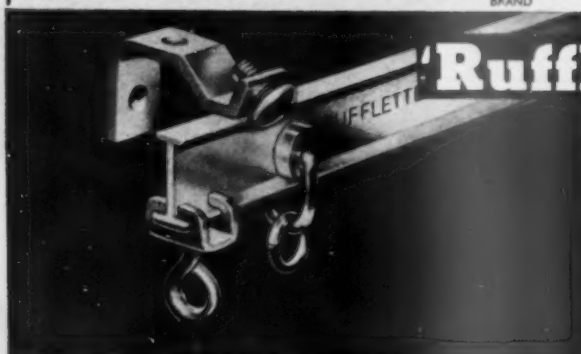
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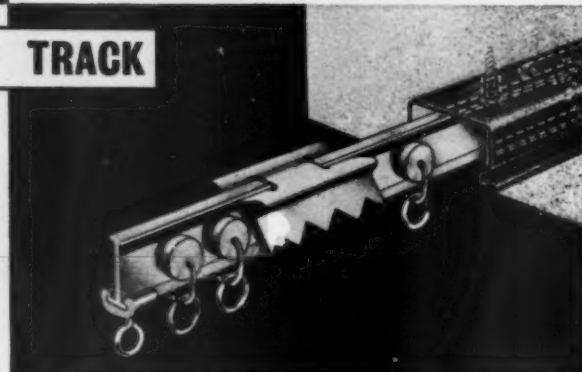
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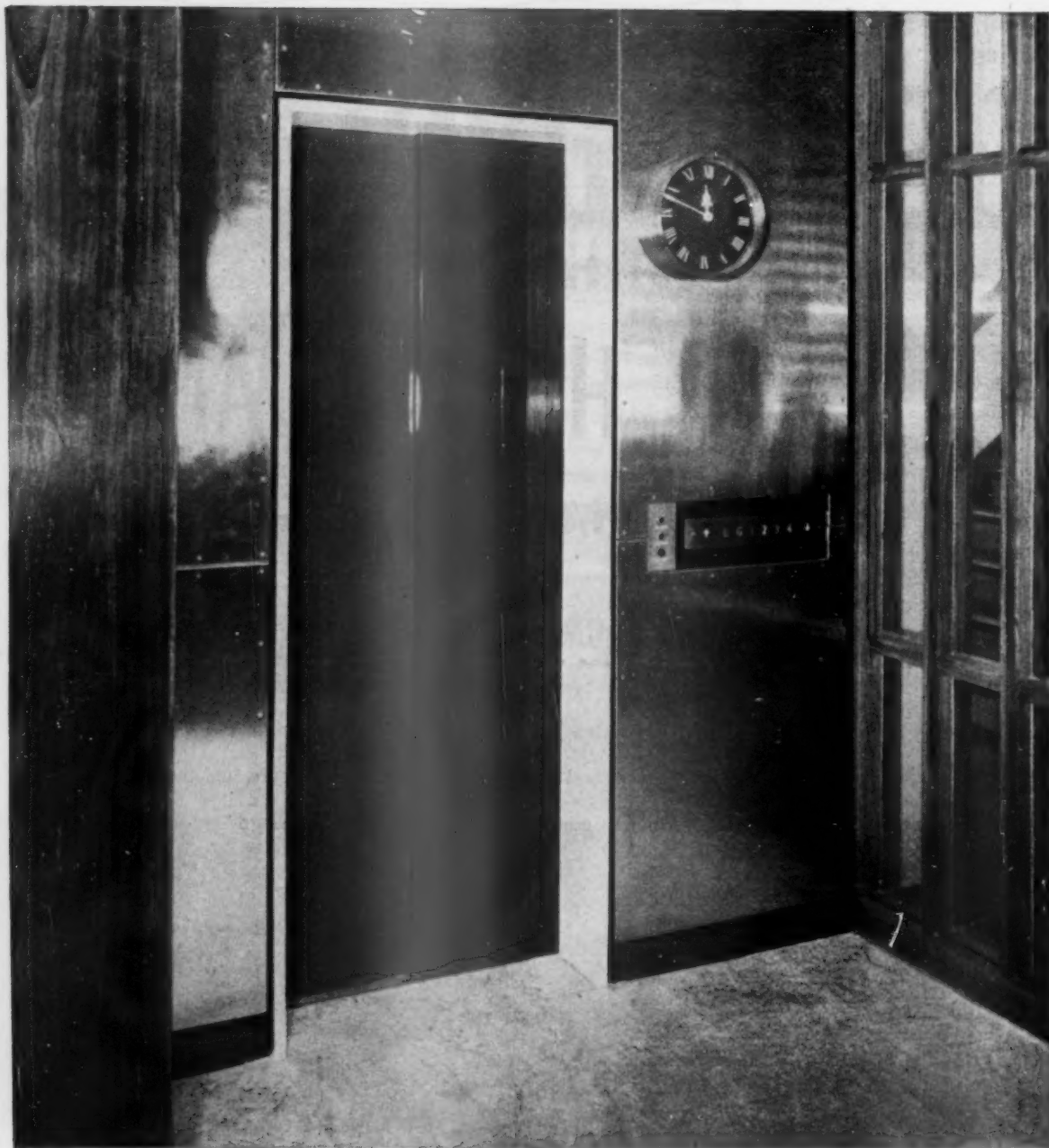
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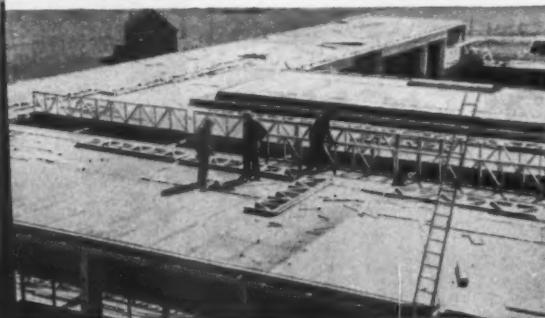
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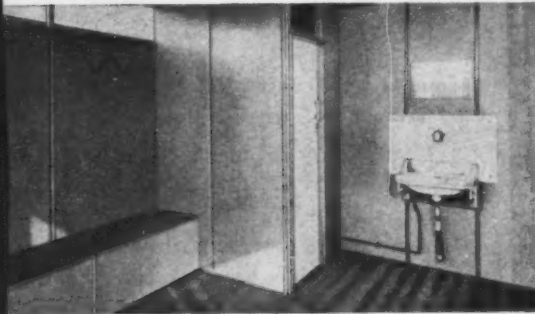
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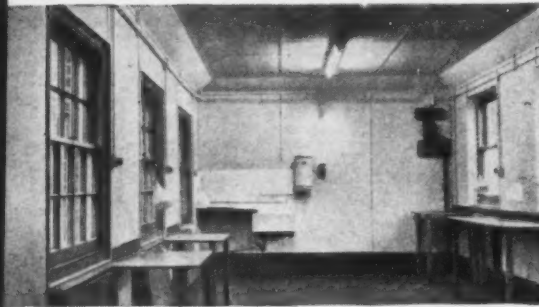
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Above and below.
Two external views of the building.



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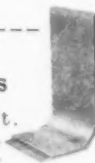
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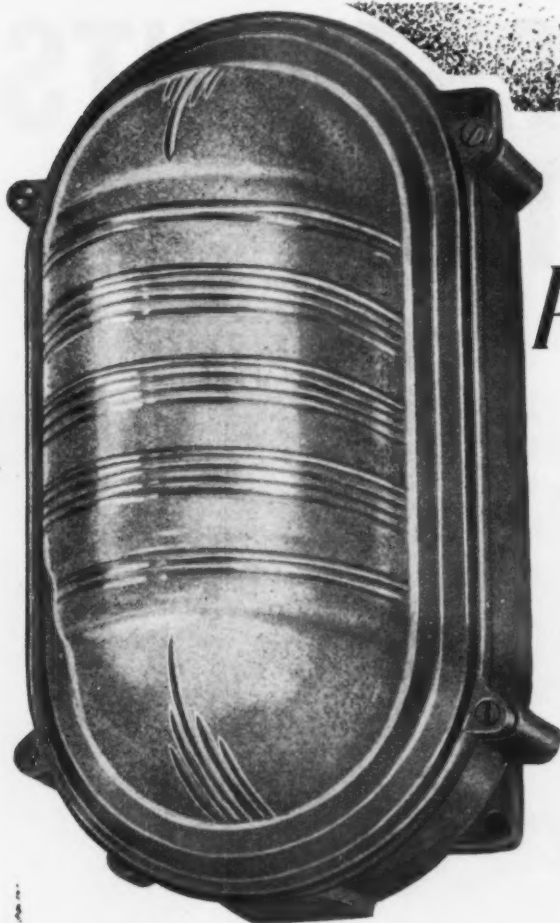
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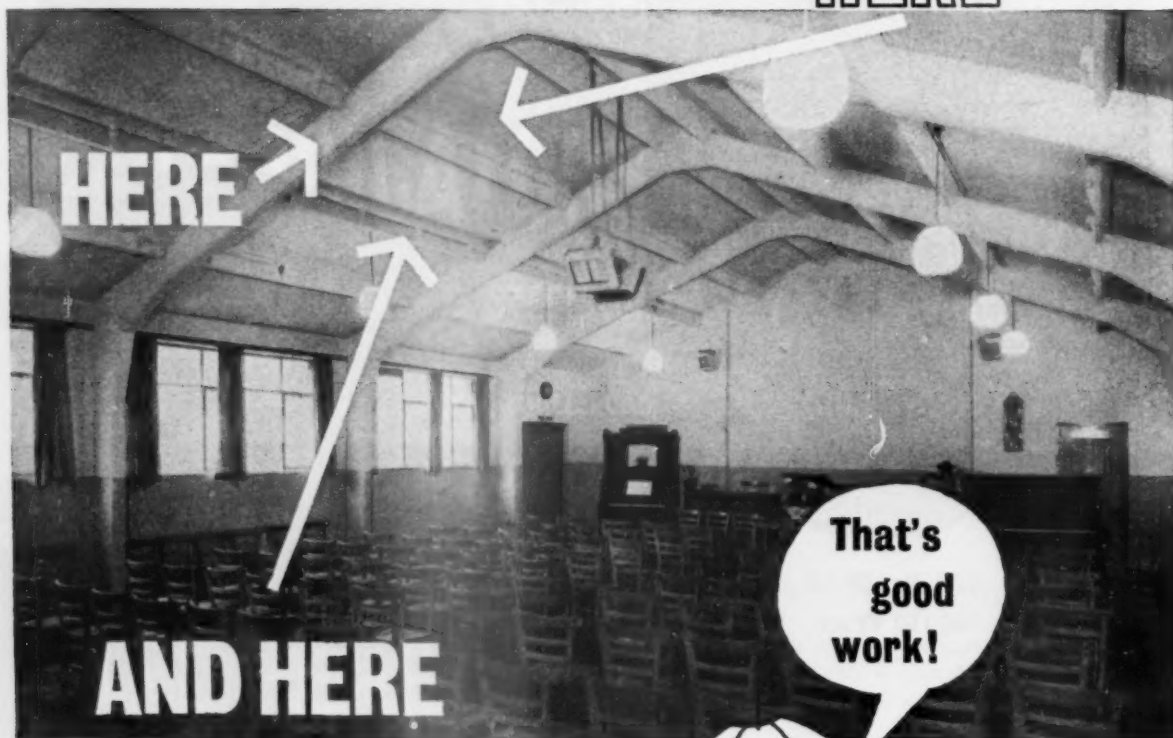
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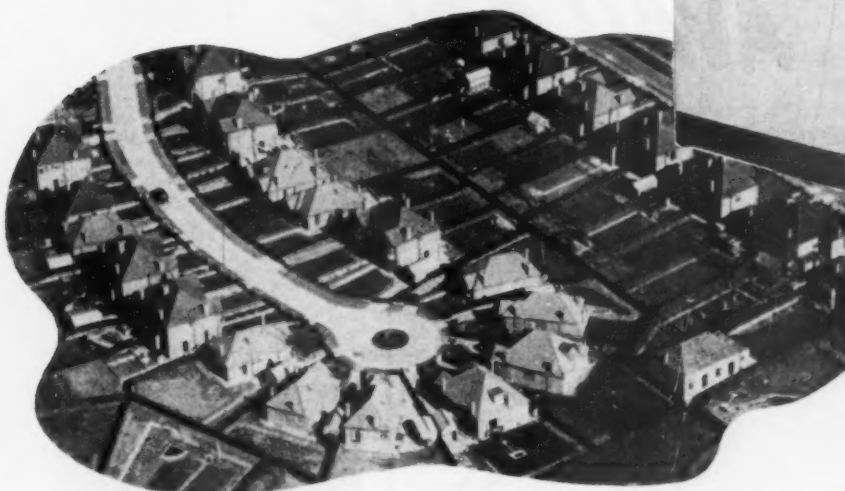
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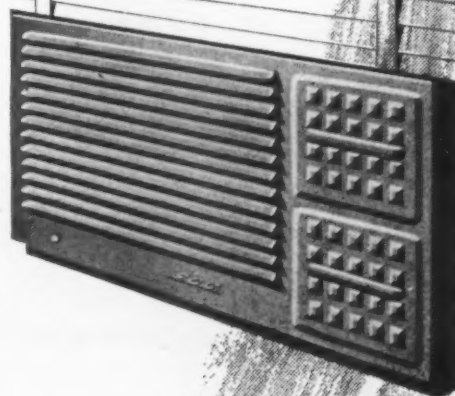
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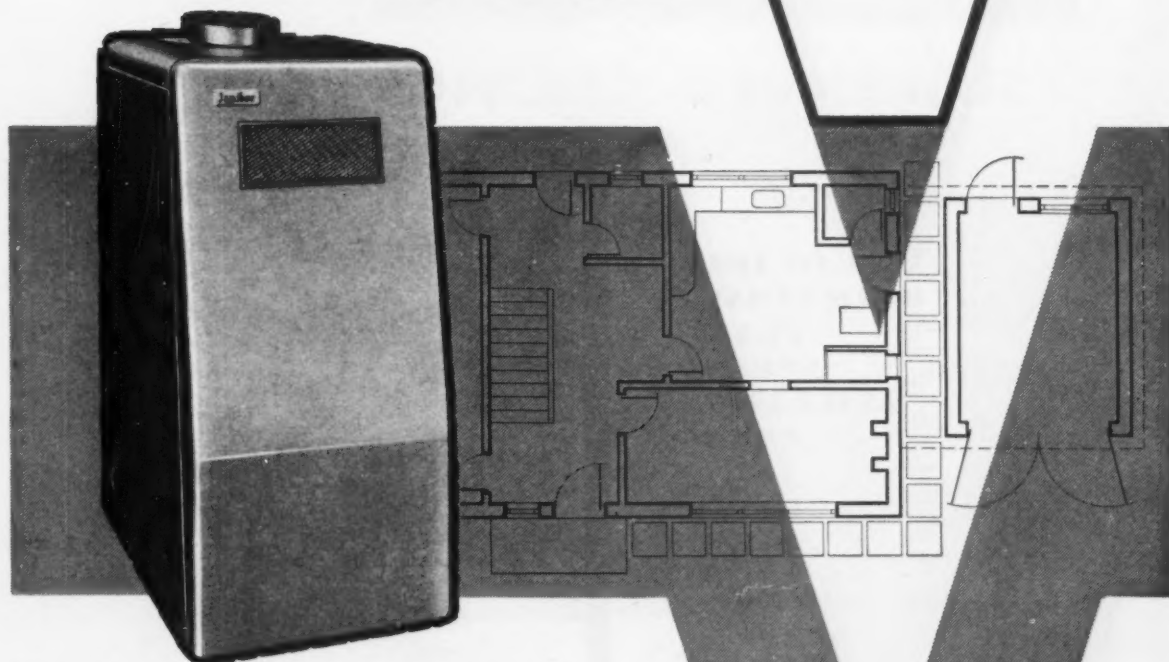


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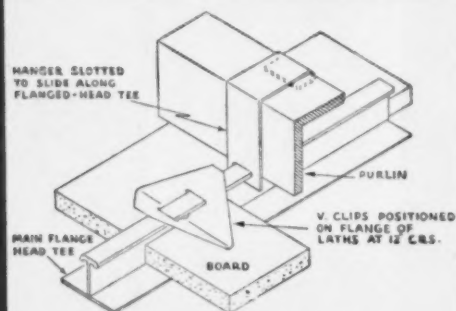
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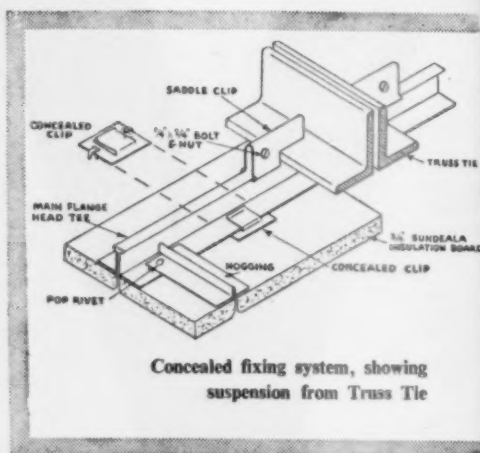
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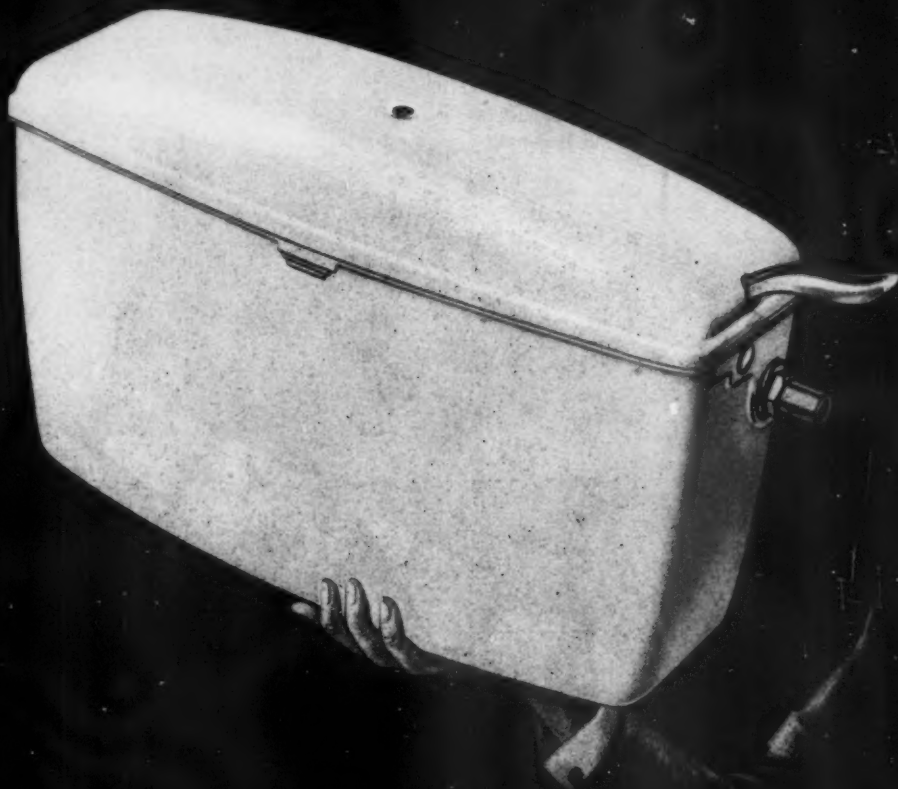
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The specially designed lighting scheme in the Entrance Hall.

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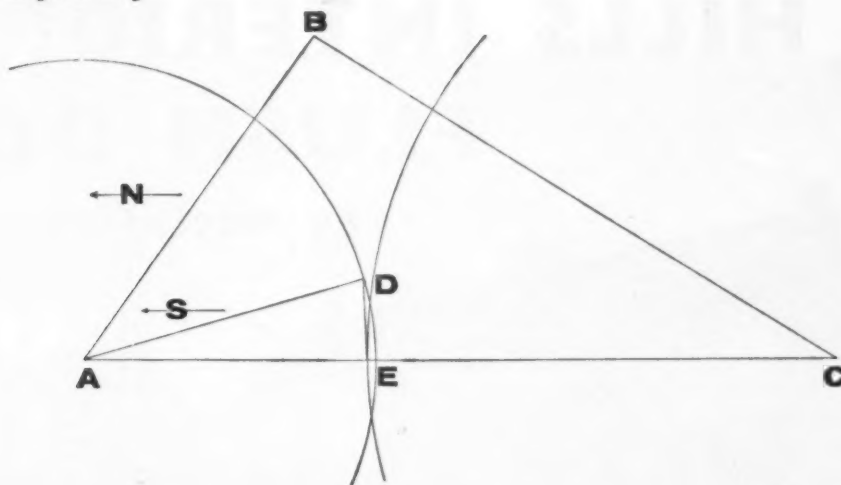
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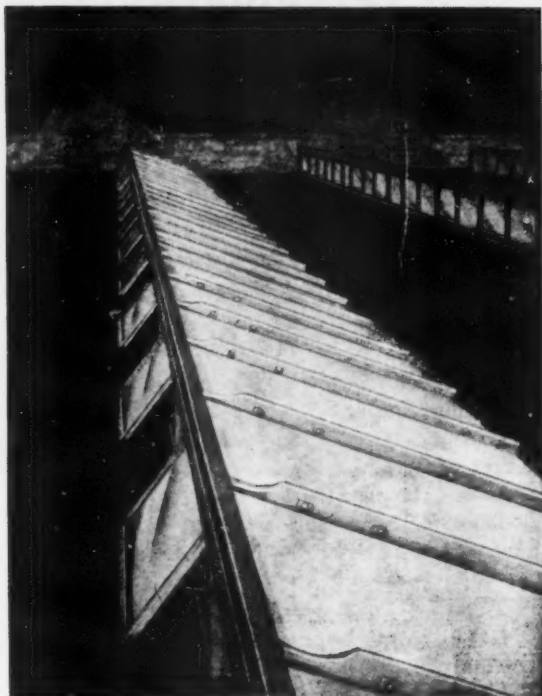
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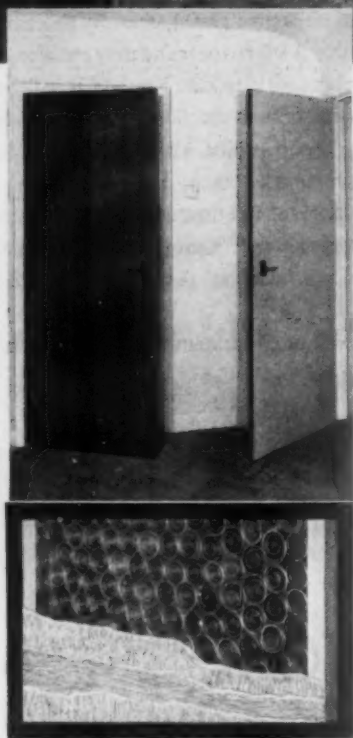
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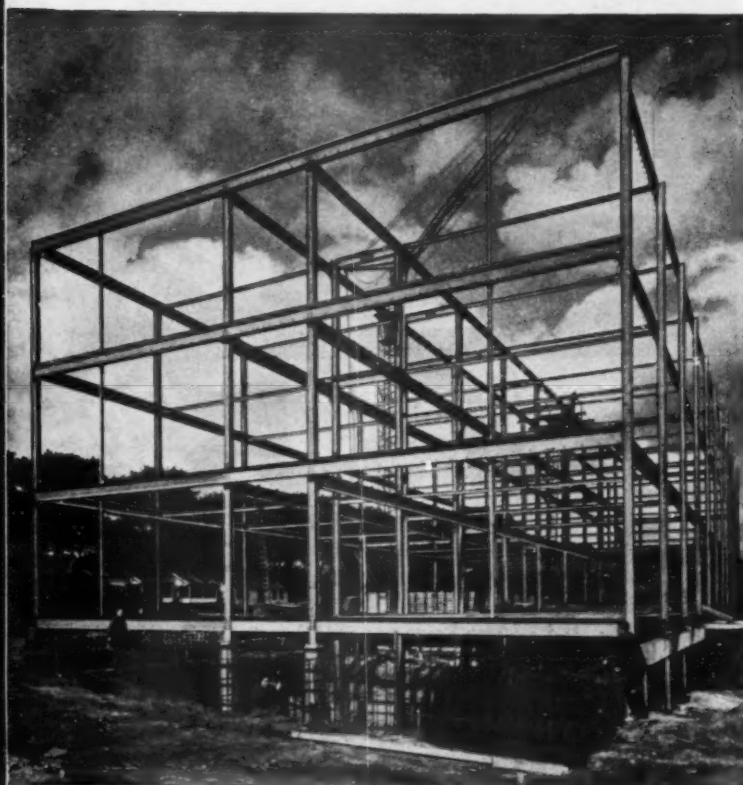
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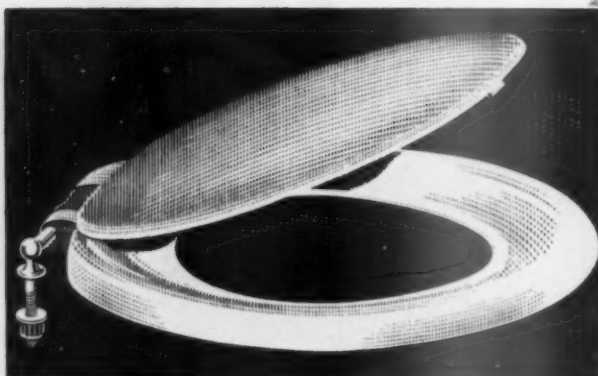
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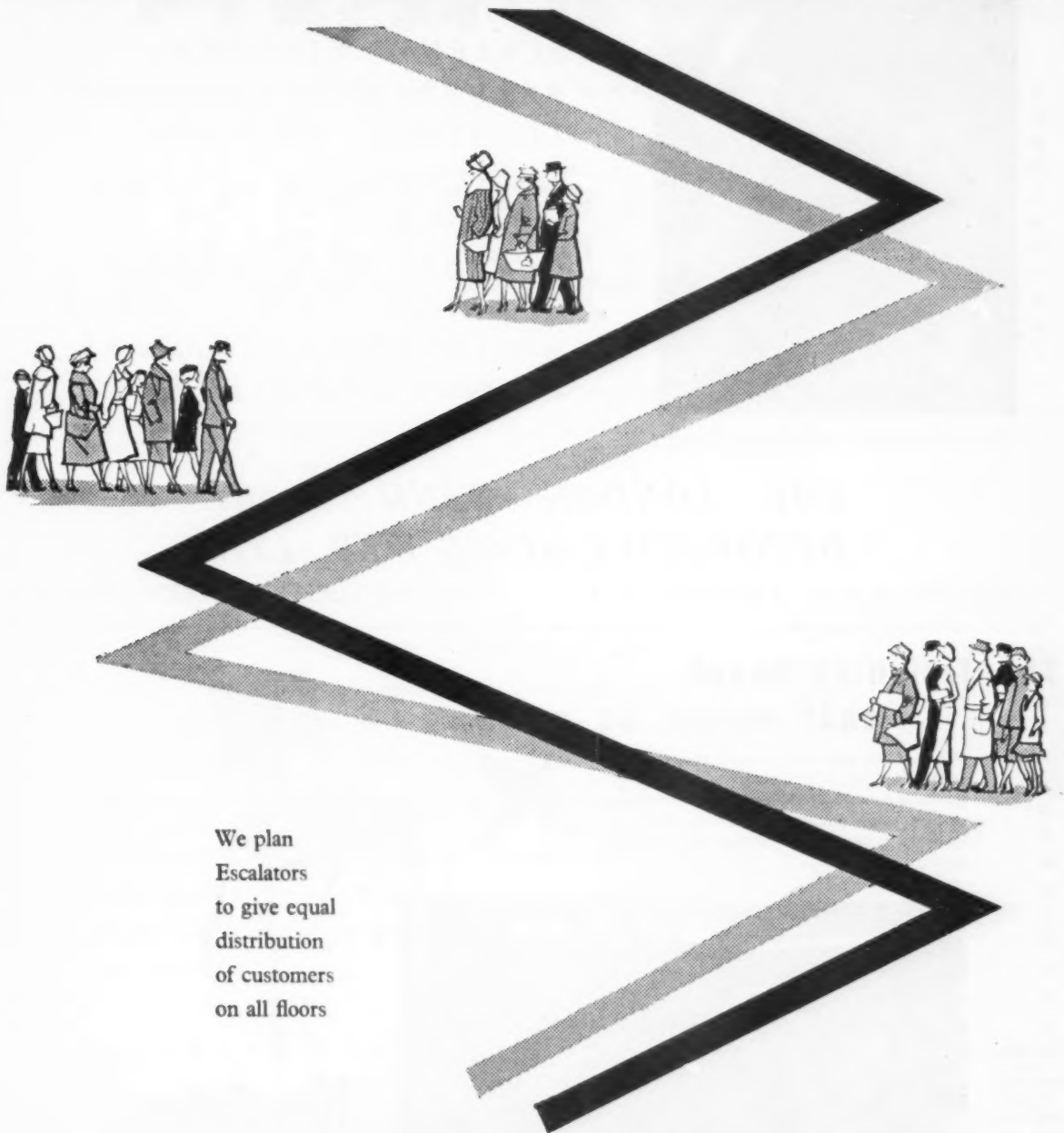
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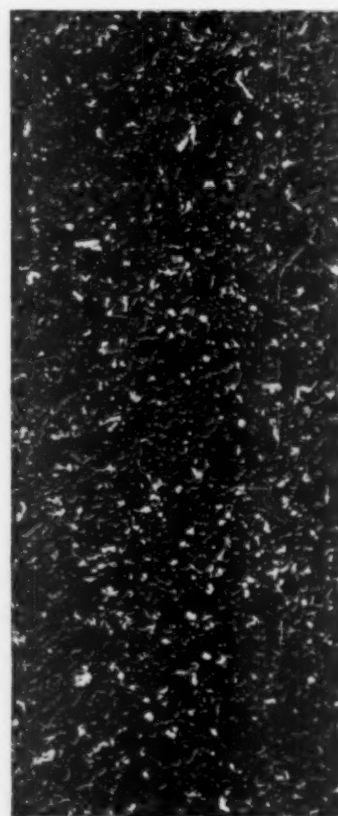
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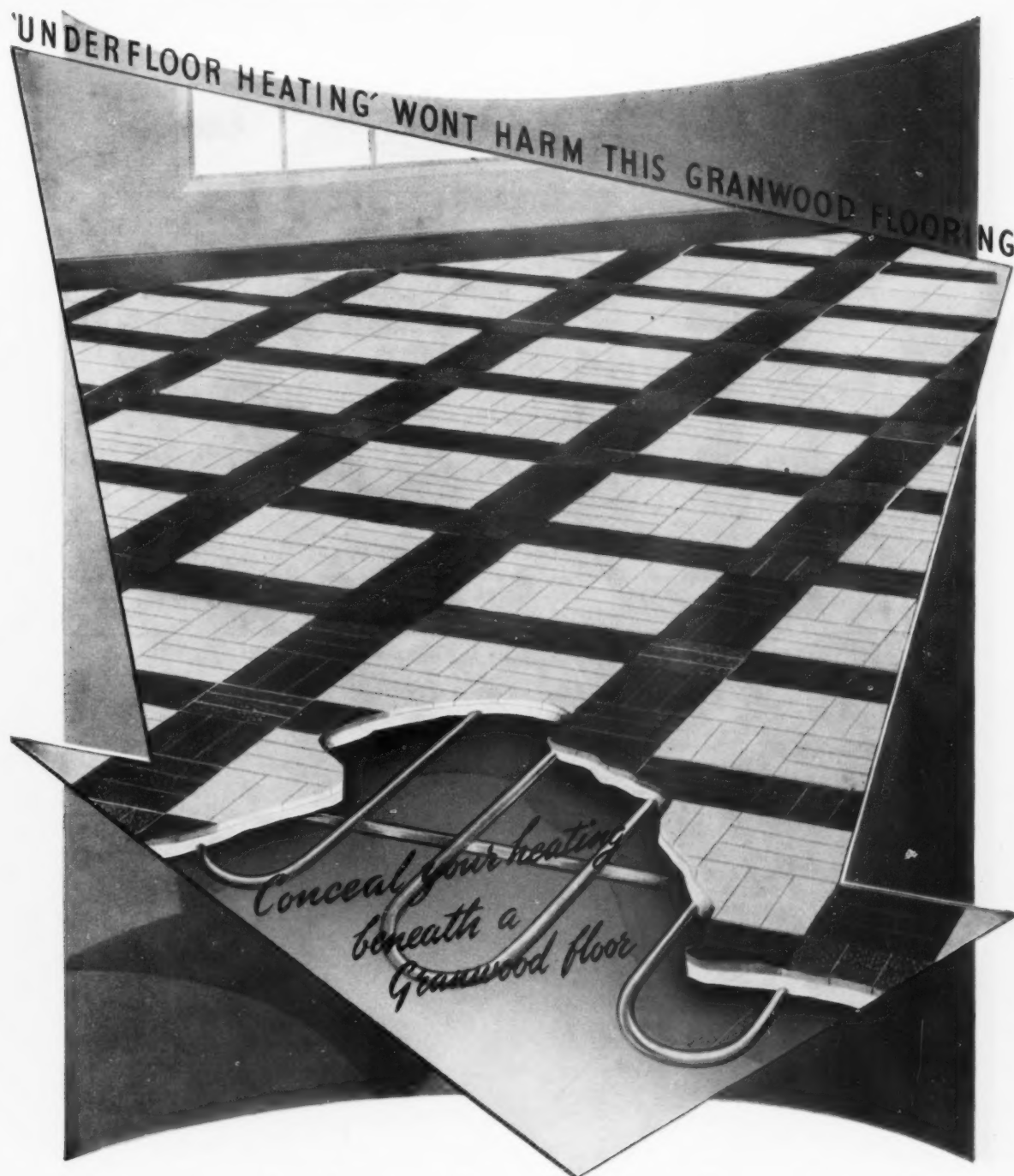
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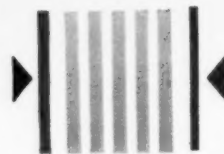
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13 January 1960

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PICCADILLY PORTENT

THE Monico inquiry has been the longest ever held on a single site. It has also been one of the most remarkable. By dramatic coincidence a large proportion of the controversies at present facing architects and planners have been focused in the conference room at County Hall. For the first time in years, Parliament and the public are taking a real interest in the problem of urban design.

Among the questions which have been ventilated at considerable length are the problems of well-designed urban renewal programmes under present-day conditions; whether pedestrians can be segregated effectively from motor traffic over large areas; the aesthetics and placing of large illuminated signs; the propriety of the free surrender of land for road widening with the consequential cramming of building bulk on to the remainder of the site (when the plot ratio is measured over the whole site); the relationship of planning authorities and their officers with private architects; the professional status of architects and whether or not they should have a financial interest in buildings they are designing; the value of the Royal Fine Art Commission and the clarity or otherwise with which it expresses its opinions; the value of architectural criticism generally.

At the back of all these problems has loomed the prospect of other enormous new developments in the West End. What is happening at Piccadilly is only the beginning of a new era of urban reconstruction in the central areas of our larger towns. And Piccadilly has made it quite clear that our existing legislation and planning machinery

are utterly inadequate to control it, or to guarantee a reasonable degree of architectural or planning quality in the ultimate result.

There can be no easy solution to this problem of the redevelopment of central areas which is one of the most complex which planners have ever had to solve. Events have moved fast or men's minds slowly: traffic congestion is piling up with increasing speed and financial capital is being poured into the commercial reconstruction of town centres faster than planners can handle them. The need for action could not be more urgent. Either we produce some new planning techniques quickly so that the problem of combining traffic, people and buildings can be tackled effectively or the centres of the larger towns will become squalid and inconvenient anachronisms.

There is no reason to suppose that the problem is insoluble. There are hopeful signs. The new Minister of Transport is reputed to be a most practical and ingenious man, unafraid of matching new problems with new solutions. There are rumours of a new section at the Ministry of Housing being set up to study town centres. The Town Planning Institute shows signs of life with its recent research into urban traffic. Perhaps it can throw some light on this problem too.

What is clearly needed now is some hard, if belated, thinking before it is too late, followed by a short amending Act to deal with this subsidiary but vital issue of planning. If we get this Act in time, and we rise to the greater opportunity, Piccadilly may be looked back upon as a turning point in the history of town planning and civic design.

To allow for full coverage of the Monico site inquiry ABNER has been transferred to page 44

MONICO SITE INQUIRY—4

Nobody Appeared to Have Designed It—"Like Topsy, It Just Grewed"

Previous reports were published in the A. & B.N. on December 23 and 30, and January 6

ON the seventh day of the inquiry into the future of the Monico site before Mr. C. D. Buchanan, the Inspector appointed by the Minister of Housing and Local Government, Mr. Kenneth Wheeler, representing the Regent Street Association, withdrew from the inquiry. Mr. Wheeler said that the Regent Street Association was satisfied that the developers did not intend to, and would not, put the shopping facilities to any use which would prejudice the very high standard which the Regent Street Association were trying to maintain in this area.

Quick Development Welcomed

Mr. E. Holland Hughes, representing H. Samuel Ltd. and Saqui & Lawrence, said that his clients asked that this particular development should not militate against the quick development of the east side of Piccadilly Circus. It had been said by the L.C.C. that they did not intend to begin development of the east side until 1965, but his clients would welcome the acceleration of the development and it would appear that there was a good case for a co-ordinated development of the whole of the Circus at the same time.

Mr. Hughes added that his clients could not approve of the first-floor walkways, apparently contemplated by the L.C.C. for this part of the Circus. In their view, he said, it would be detrimental to shopping facilities and repugnant to the whole character of the Circus.

Case for the Civic Trust

Mr. Elwyn Jones, opening his case for the Civic Trust, first drew attention to some remarks made by Mr. Ramsay Willis during the sixth day of the inquiry: "The building which should be erected here should be a building in the modern idiom which can stand for many years to come as an example of the architecture of this time and century."

Mr. Elwyn Jones said he was glad Mr. Willis had put it as high as that. It was as high as the Civic Trust also would seek to put it. Indeed, it was for precisely that reason that the Civic Trust had intervened in the inquiry. It had not done so to indict Cotton, Ballard & Blow.

The astonishing fact had emerged from evidence in this inquiry that nobody appeared to have designed the proposed building—"like Topsy, it just grewed". A building on this all-important national site should surely (to fulfil Mr. Willis' conditions) be created consciously.

"It should not merely be, as the evidence has shown here," said Mr. Elwyn Jones, "like the proposed building: a by-product of technical controls concerned with the maximum quantum of commercial exploitation. The pedigree of the proposed building appears to be by plot ratio out of permitted uses."

"These factors have, it would seem, alone inspired and motivated it; and I fear those responsible for this state of affairs have only themselves to blame if they have become or are made the subject of criticism."

Mr. Elwyn Jones said that he agreed with Mr. Willis that the inquiry was not intended to be a forum for abuse and he hoped that when he drew attention to the questions he had asked on behalf of the Civic Trust, as

distinct from the caricature of them by his learned friend, it would be seen that he had avoided abuse.

But he did not agree that the inquiry should not be a forum for criticism and he wondered on what possible basis Mr. Willis could claim immunity for his clients.

"As for my learned friend's complaint of coyness in my cross-examination," said Mr. Elwyn Jones, "with regard to the architectural design of the proposed building, perhaps I might be permitted to remind you that the coyness of the developers' architects, Cotton, Ballard & Blow, has reduced them to complete silence in this inquiry, save for their own counsel's apology."

J. M. Richards Called

Mr. Richards said that he was appearing in his individual capacity as an independent critic and not in any sense as a spokesman of the Royal Fine Art Commission, of which he was a member. He agreed with the views of the Commission, expressed in their letter of December 15 to the Minister.

Mr. Elwyn Jones asked what view had he formed broadly with regard to the proposal (for the Monico site).

Mr. Richards said he was glad the word "broadly" had been used because they had listened to a great deal of technical detail, no doubt necessary for the complete picture of what was proposed. In these circumstances the very broadest issues, such as whether the application was in the public interest and whether the standard of architecture was such as met the public interest were easily lost sight of, and after all it was because of the public issues involved that the inquiry was being held.

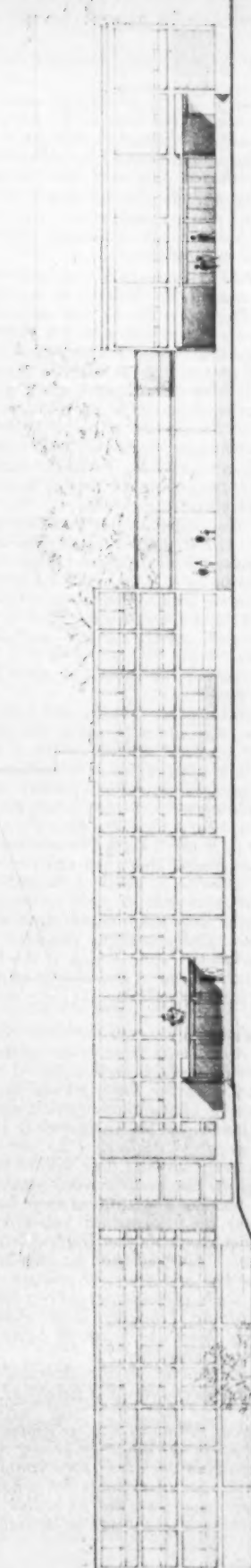
The building proposed for the Monico site, even in the revised form, was quite unworthy of its important position, but, continued Mr. Richards, he would like to link that view with a second statement that in the public interest a unified scheme for the rebuilding of the Circus was absolutely essential. By this he meant a scheme that took into account not only architectural quality and properly worked out architectural relationships, but also the separate provision for pedestrians and motor traffic.

These two points were very closely linked in the sense that, in his view, the proposed building, besides being a second-rate piece of architecture in itself and therefore quite unacceptable if it was going to set a standard for the rest of the rebuilding, stood in the way of the execution of a satisfactory plan for the Circus as a whole.

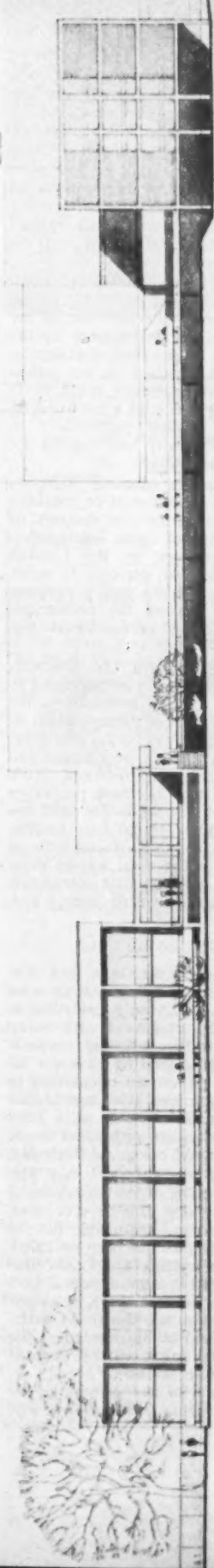
He was, he said, quite convinced of this in spite of some evidence given, he thought, on behalf of the L.C.C. that it did not stand in the way.

Going further on to the question of planning, Mr. Richards said that although he regarded it essential that the Circus should be developed as a whole and not piecemeal, this did not mean uniformity of design throughout the Circus.

Counsel for the L.C.C. had described the disadvantages of what he called a finite architectural solution, but no one (as far as Mr. Richards was aware) was asking for that. Mr. Richards said: "What I am asking for is simply that no new building should be sanctioned until the layout and general line of the development all round the Circus has been settled and that each new building should conform to these."



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A Winner for Corby New Town

The result of the Corby Civic Centre competition was announced on Tuesday. The prizewinning schemes are illustrated on pages 45 to 56. Two major elevations of the first scheme by Enrico de Pierro, Nigel Farrington, and John Denny are shown above. The winning architects are to be congratulated on producing a well planned and dignified building and Mr. de Pierro on his second competition success (first in the College of Further Education, Poole). For anyone within striking distance of Corby, an exhibition of the 71 submitted designs is worth a visit. Here, every possible (and world-wide) influence is reflected in the completed design . . . window wall; 1920's "exploded"; Sydney Opera House; Coventry Cathedral; Corb here, Wright there . . . and many others. Perhaps this is the "searching sixties" for the architect? However, the purpose of the competition was realized. In no other way could such divergent lines of approach have been brought to bear on one problem, and the most appropriate answer chosen. While in Corby, take a look at the New Town . . . it badly needs the quality which will be provided by this new Civic Centre

MONICO SITE INQUIRY

This did not mean that a building on any site need be held up until other sites for rebuilding were ready. Each could go ahead in its own good time as long as it conformed to the general plan.

"But," said Mr. Richards, "we must have a general plan. I do not believe any other great capital city with so important a site as this to rebuild would leave it to a private developer without more safeguards being applied to ensure that the public interest and the general planning interest was also served."

It was in the nature of private development for commercial purposes that buildings should be designed on the basis of profitable exploitation of the site, but, at the same time, private developers should be required by the planning authorities to make a reasonable contribution to the creation of a new Circus, made with the public interest in mind, just as they were already required to provide, for example, car parking space as a contribution to the traffic problem. This applied particularly to Piccadilly Circus where the public itself had created the enhanced position for public advertising.

Mr. Richards said: "There must be adequate provision for people to stroll about on foot; people must be provided with ample pavement space away from the dangers of motor traffic, perhaps in the form of upper-level pedestrian terraces such as were proposed by the London County Council's advisory scheme or perhaps in some other form yet to be decided. But the traffic problem will certainly not be solved by driving the pedestrians underground or the whole social value of the Circus will be lost."

Mr. Richards said that when he heard Mr. Bennett's evidence his feeling was that Mr. Bennett was beginning to paint a quite inspiring picture of the improvements of the West End of London and that in spite of its reputation of being behind the times, London might yet be the first great city to tackle the problem of segregating pedestrians and initiating in the West End a great step forward, made possible by the fortunate chance that all these properties were falling ripe for development just when the need for separation of pedestrians and motor traffic had become urgent. In fact, what the L.C.C. had done, faced with an application for the first building in the area, was to show themselves willing to consent to a design that completely nullified these very great opportunities within their grasp.

Sabotaged Their Own Plan

Questioned on his last point, Mr. Richards said that the L.C.C. seemed to him to have sabotaged their own far-sighted plan (for the Circus). The only contribution of this proposed building was that it gave a little more space for movement of motor traffic, but had made it virtually impossible for any co-ordinated scheme of separate high-level or other level pedestrian circulation to be brought into effect. Mr. Booth had said in evidence that if required the building could be made at a later date to join up with a system of other pedestrian ways. Mr. Richards hardly thought it could do so satisfactorily.

"This brings me, if I may go on a little," said Mr. Richards, "to what I think is the basis of the architectural criticism of the design. We have one firm of architects, as you yourself said a little while ago, responsible for the general design in close consultation, as has been revealed, with Mr. Bennett. We have then another architect called in to deal with the elevations and it now appears, as I understand, that Mr. Booth at a further stage, if necessary, would be quite willing to adapt the design to incorporate pedestrian bridges which had to be rejected at the first stage, and as a method of creating a worthy work of architecture, this strikes me as quite fantastic."

Mr. Elwyn Jones: "With regard to the provisions for people using the building in the Circus, what do you say,

for instance, with regard to pavement space and matters of that kind?"

A: "As I have just said, it is very important, naturally, that the pavement space should not only be adequate but the plan as a whole should be planned in relation to the need to segregate all types of traffic, and I would certainly regard 15ft of normal orthodox pavement space between the front of this building and the fast-moving traffic as being entirely inadequate."

Q: "What do you say with regard to the advertisement problem in regard to this new building?"

A: "First of all I would like to make it absolutely clear that I am not only not against but strongly in favour of the traditional use of Piccadilly Circus for advertising purposes, and have not only sympathies with but share the public's enjoyment of advertisements all round the Circus. It presents, as we are all aware, a great number of architectural problems, and I think the daytime effect of the lighted advertisements as well as their night-time effect has to be borne in mind. This means that the display of advertisements must be integrated with the architecture."

Q: "Do you think the design of the proposed building does achieve that object of integrating the display of advertisements with the architecture?"

A: "No, in my view the design of the building completely fails to do this. All it does is to provide some blank panels on which advertisements can be hung which I regard as a rather clumsy way of doing it, and I am sure in the hands of an imaginative architect the needs of advertising could be met in a lighter and livelier fashion and without destroying, as do these panels, the scale and shapeliness of the building."

Q: "What do you say about the proposed panel from the advertising point of view?"

A: "From the architectural point of view and from the advertising point of view, they are designed as flat panels to be seen from straight in front and, therefore, I think they fail to exploit the visual possibilities of advertisements disclosing themselves in sequence in a lively fashion with a moving viewpoint as one moves round the Circus, enhancing their effect as they do so, and they also have the effect, which has been brought up I think earlier in this inquiry, of starting so high above ground that they will not read, as those in the present Circus do, as parts of the enclosing walls of buildings, and it is to read as parts of enclosing walls of buildings covered with illuminated signs which gives the Circus its present lively and gay character."

Q: "Do you agree with the view which I think Sir Howard Robertson agreed with that it is desirable to retain the atmosphere of Piccadilly Circus as a 'homely enclosure'?"

A: "I do not think I should have used the term 'homely enclosure' because they come away from home to see the bright lights of the West End which they enjoy. I think it should be an enclosure, and the lights should be part of the surrounding curtain of buildings which enclose the Circus, and the fact that the present panel is raised up so high, I think will destroy its effect. I do not mean that it will prevent them being visible; they will be visible from the farther parts of the Circus by craning your neck upwards, but at present you see the lights at their best as you go round the Circus by bus and as you circulate within the Circus, and this agreeable and lively effect will be destroyed by the plan. You will not be able to see them from the top of a bus and you will not see them as part of the enclosing walls of buildings. They will be right up in the sky; 156ft up, I believe, is the distance, and they will be removed from the sense of being part of the design of the Circus altogether."

Q: "What view do you hold about the desirability of having advertisement signs ascending to a height of, say, 150ft in this place?"

A: "In this place my chief dislike of it is, as I have said, that it lifts them too far up in the air to be proper to the conception of the Circus as an enclosed space containing advertisements. The point has been made by a number of people that it will also mean they will be visible from other parts of London where it might not be desirable to

have illuminated advertisements. I think there is a great deal in that criticism, though I personally would not attach prime importance to it because the general distant view of additional lights in the West End I do not think is a disadvantage, though I am certainly prepared to say that in certain areas they might be regarded as obstructive to amenities."

Q: "I should like you to express your view with regard to the proposed revised design for this building. What are your feelings about that, Mr. Richards?"

A: "There are a number of criticisms one can make of it simply as a piece of architecture. I have made several already. I have also to go further into detail and mention the disproportionate height of the podium, the lack of any proper relationship between the podium and the tower-like structure above it and the lumpish, rather ungainly proportions of this tower-like structure. In the claims that the applicants have made on behalf of the design, I think the word 'gaity' has figured very largely, and I can only say that it strikes me as one of the most 'ungay' buildings I have ever seen. Otherwise, I think, as I have made clear, my dislike of the building is not confined to detailed architectural criticisms of it but to the failure to design the Circus as a whole—to plan the Circus as a whole. To give consent to this building would involve that an obstruction is created to the proper construction of the Circus. May I mention that you stressed the revised design. I may say the minor changes for the reasons stated made in the design do not affect my disapproval of it at all. Architecture, in my view, cannot be created by trying to ameliorate some of the defects of what is basically a poor building, and the design, in spite of the efforts Mr. Booth has made over a long period, remains, in my view, one of a far lower standard than the public has a right to expect on a site as prominent and significant as the Monico site."

Q: "Is there anything further you wish to say?"

A: "Unless it is appropriate at this stage of my evidence to try to sum up briefly what I think is desirable, I would merely say I hope that the design will be disallowed so as to leave the way clear for a general plan for the redevelopment of the Circus, and after the plan has been settled, I hope a new design by a first-rate architect will be made for a building on this site. My objection in short is that it is utterly unworthy as a piece of architecture in itself and it hinders instead of promoting the planning of the rest of the Circus in the public interest."

Thank You

"It would not be unfair," asked Sir Milner Holland, Q.C., in cross-examination, "to describe you only as a critic?"

"I would not use the word 'only,' because I think critics have a useful role to perform. But I am a critic and not a practising architect," said Mr. Richards.

Q: "Mr. Richards, it really all comes down to this, does it not: you have the qualification by degree of the R.I.B.A.?"

A: "Yes."

Q: "You have not yourself designed a building of any size?"

A: "No."

Q: "You come here to give us a little lecturette on your views about this building?"

A: "Yes."

Sir Milner Holland: "Well, thank you very much for coming."

Answering a question of the Inspector, Mr. Richards said he would say that the building was ungainly in its proportions; that the relationship between the tower structure and what has been called the podium, which follows the perimeter of the site, was not only poor, but almost non-existent; that is to say, one rose out of the other, without any three-dimensional link-up at all, so that the two did not seem to be related to each other as pieces of design. The screen or panel carrying the advertisements on the tower was both out of scale with the building, was clumsily related to it and was altogether too big.



A petrol station forecourt canopy for County Motors (Kent) Ltd., Dover. The form of the canopy is that of an inverted truncated cone with concave sides cantilevered out from the top of the attendant's central kiosk. It was designed by Aluminium Alloy Fabrications Ltd., of Woking, Surrey (who also made and erected it), in conjunction with Louis Erdi, architect and surveyor. General contractor, Jenners of Folkestone

NEWS

International Competition: Tunis

An open international competition for the development of the town of Tunis has been approved by the I.U.A. The theme is in five parts: a study for a road through old Tunis, and sketches for the development of the Lake of Tunis and the Sedjoumi Lake, a national memorial and the residence of the President of the Republic. The final closing date is October, 1960. First prize is 5,000 Dinars, second 2,500, third 1,500, fourth and fifth 500 (£4,277, £2,139, £1,284, £428). Full details from the R.I.B.A.

Crawley New Town Chairman Resigns

Sir Thomas Bennett has given up the chairmanship of Crawley New Town Development Corporation because of the very heavy pressure of his private work. The appointment of a successor is being considered by the Ministry of Housing and Local Government.

L.C.C. Delegates Some Planning Powers

Certain applications under the Town and Country Planning Acts and the London Building Acts and by-laws are now being sent by the London County Council to the Metropolitan borough councils in accordance with proposals recently approved by the Minister of Housing and Local Government. This procedure came into effect on January 1.

The types of planning application concerned comprise, in the main, those relating to changes or continuations of use and alterations and additions within certain defined limits as to cubic content and floor space where no departure from primary zoning is involved.

The Building Act applications to be delegated comprise, in the main, those where the council is not dealing with the planning aspect and where consent is required to projections in advance of the building line, temporary buildings, the conversion of houses into flats and the uniting of buildings, including the provision of means of escape.

The procedure for making applications remains the same, i.e., all applications should be submitted in the first instance to the L.C.C. who will continue to maintain the Statutory Register of town planning applications and decisions. When an application is delegated to the Metropolitan Borough Council concerned, the applicant will be so informed.

MONICO SITE INQUIRY

Mr. Richards criticized the building in the way it was placed in relation to the buildings to the west of it. "The County Fire Office is what you see as you come up Lower Regent Street. You will now see the County Fire Office, then a gap of sky, and then a building of completely different scale beside it. I think those two vertical elements are not at all happily related," he said.

Mr. Richards said he agreed with the Royal Fine Art Commission's suggestion that they would like a background for a much freer kind of advertising. The Inspector wanted to know how he reconciled that with the very large size of some of the advertisements which are involved in Piccadilly Circus as it is now—for instance, the Coca-Cola sign. Mr. Richards replied that he hoped a sufficiently imaginative and enterprising architect might find a way of amalgamating a properly lit office building with a free use of signs disposed on different parts of the side. It might be possible that he would be clever enough to do so and allow room for one sign as big as the Coca-Cola sign, but personally he was rather doubtful.

Lastly the Inspector asked Mr. Richards how seriously he regarded pedestrian segregation, and if he could give some idea of the scale on which he thought it should be applied.

Mr. Richards said the big problem that the modern city had got to face in the coming years was the problem of reconciling the rights of the pedestrian and the demands of motor traffic. In nearly all our cities already, traffic was tending to drive the pedestrian farther and farther into a corner; and when improvements were made in the interest of a faster flow of more traffic, it tended to destroy the city as a civilized place in which people could exist on foot. When you accepted that as the big problem that town planners had to overcome (including, of course, the L.C.C. Planning Department), some form of segregation of traffic was inevitable, some form of canalization of motor traffic that left space free for the pedestrian to go about his proper purposes in the town and live a proper town life. "Whether it demands segregation in the form of leaving the streets as they are to the motor-car and putting some of the pedestrians upstairs or down below, or a mixture of both, or providing pedestrian-ways quite independently of the traffic-ways, was a thing I would not be too positive about," said Mr. Richards.

"I would not regard the upper level pedestrian-ways as the only solution, and I certainly would not regard it as sufficient to add a few pedestrian bridges that fly over existing traffic-ways. I think, now that there is so much redevelopment going on in the West End, there is an enormous opportunity for re-thinking the whole street and pavement system in relation to segregating traffic. I hoped, from the look of the L.C.C.'s advisory scheme, that they were thinking in that direction, and am the more disappointed that this particular application seems, as I said, to stand in the way of it being brought about."

Robert Furneaux Jordan

Mr. Robert Furneaux Jordan gave a background description of the past history of Piccadilly Circus and the broader town planning issues involved. He thought it was rather dangerous the way the L.C.C. had whetted the public appetite months ago with what seemed then to be a good, even imaginative, scheme for the development of the Circus as a whole. Even admitting that such a scheme could only be the basis of negotiation with developers, he found it (to say the least) disturbing that in one room of County Hall such a scheme could be produced, while in another room of County Hall collaboration could go on in the designs for a building which seemed to him to undermine not the detailed architecture, but the primary massing of the first building which was going to be built in that scheme, substituting a vertical for a horizontal

mass. A development scheme was not finite and final, but what was the good of it if, as it would appear, almost every point was surrendered to the first developer to come along?

There were, basically, only three methods by which urban spaces had been enclosed or dealt with architecturally. The first was at St. Petersburg or Paris where the spaces were so great that they were not enclosed: one demarcated them by placing buildings around them.

The second was the backcloth or garden wall method, where the space was too big to be enclosed, but where you put a cliff of architecture as a backcloth, with the space as its foreground.

The third was complete enclosure.

Mr. Jordan continued: "Piccadilly Circus, as conceived by Nash, was such an enclosed scheme. We hope that once again Piccadilly Circus, though bigger, will become an enclosed space. That is why, Sir, on this north side, if we are to get a sense of enclosure, we have got to get a building which is primarily horizontal in proportion rather than vertical. I am not talking about height, and I am not claiming that a slab block will necessarily give a developer, who may be asking too much, all that he is asking; nor am I suggesting that a horizontal building should be scaled down so as not to dwarf the County Fire Office. We may have to dwarf it by building a high horizontal mass, but dwarfing it is not fighting with it as a competing vertical does, and I think, as you see there, Sir, you have got, not an enclosure, but two teeth and two gaps. There are two pieces of sky coming down on either side of that tower, whereas you could have a building, rather lower than that tower, but higher than the County Fire Office, and filling—I know the Pavilion will eventually be pulled down—virtually the gap in the sky between the County Fire Office and the Pavilion. In short, Sir, very much what the L.C.C. have got on this model here, whether the actual usages within the building work out as they intend it to or not, and whether or not the developer can be given every square foot of lettable space in electric signs that he requires."

The line of Regent Street was not just a chance thing. It had been carefully chosen as a most strategic line to seal off the slums of Soho and open out to the Ducal estates on the west. That was the basis of the plan, a basis which could no longer be sustained when you got to Piccadilly Circus, and at the first point where it was possible to happen Piccadilly Circus had always been trying to burst out eastwards.

Some of us felt, said Mr. Jordan, that every time it had done so, Piccadilly had got worse, and the process must not be perpetuated.

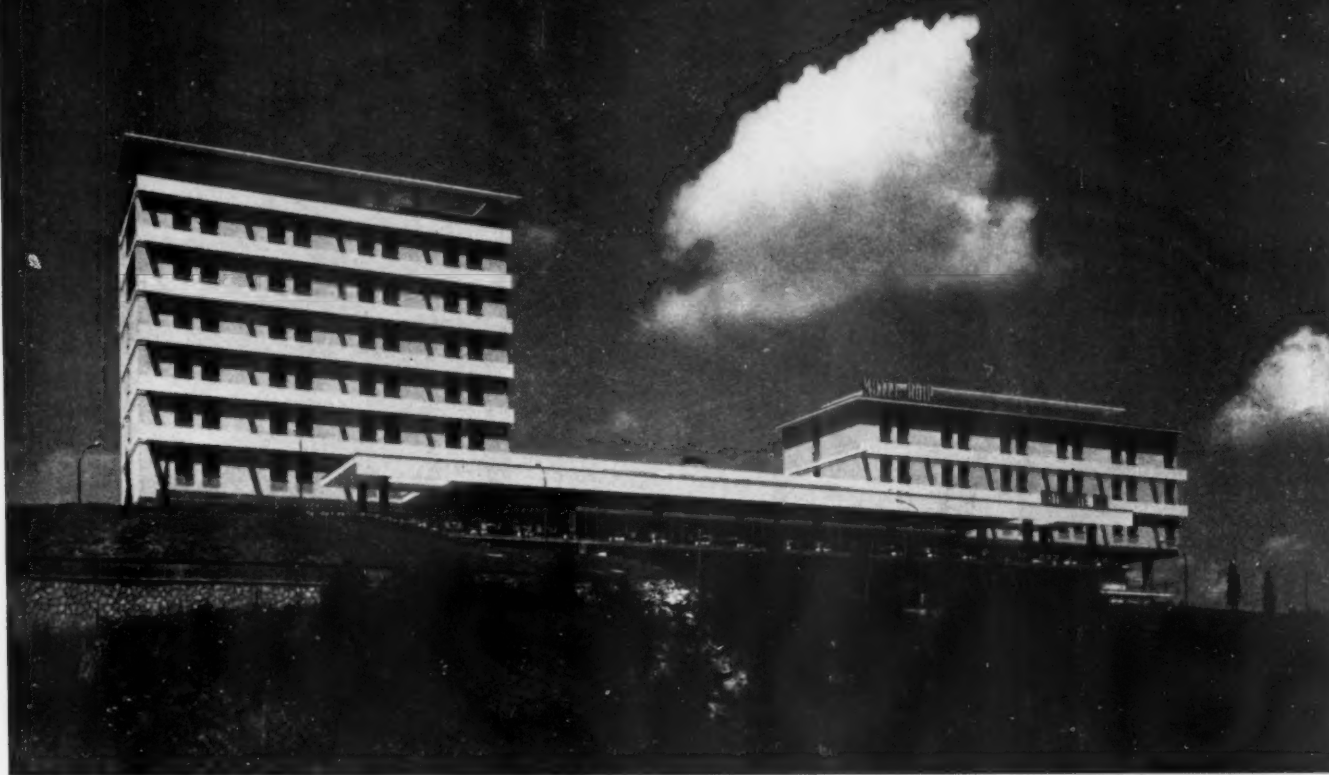
Said Mr. Jordan: "We want to get it bigger, but we do not want it to get worse. We want it to be one of the great urban enclosures, worthy of a capital city in Europe. But it is primarily in a social sense, although, of course, a great traffic place, too, an area, as has been said again and again in this inquiry, where pedestrians can stroll about on paved areas and view the signs provided for their entertainment, signs which are an entertainment as long as they are contained within the enclosure for which they are intended, and are fenced the moment they are seen beyond that area."

The L.C.C. had put forward and abandoned a scheme for pedestrian bridges. Sir Howard Robertson had said that Americans would not go up steps, but we did not plan our cities for Americans, welcome as they might be. As in the bridges of Venice, designed to take the height of a gondolier, these would save to be designed to take the height of a London bus. He suggested that we should invite the 1960 R.I.B.A. Royal Gold Medallist, Pier Luigi Nervi, to design these.

★

In next week's issue will be: Mr. Robert Furneaux Jordan's evidence (continued) and that of Dr. Thomas Sharp, Sir William Holford, Richard Sheppard, Denys Lasdun, David du R. Aberdeen and Miss Jane Drew.

Continued in next week's issue



A.G.I.P. motel in Rome, the restaurant and dining terrace in front. Architect: M. Bacciocchi

Photos: VASARI

In Rome Again

ANARISC

FAUSTO

WE first met on the terrace of a penthouse apartment just a couple of ochre-coloured blocks from the Piazza d'España. The occasion was a party given by a mutual friend, and, because it was June and the evening warm and starry, the drinks and the olives, the warm sausage rolls and the cocktail biscuits were served alfresco to the twenty or so guests—Italians, Americans and English—who were enjoying the magic of a Roman summer evening. The lingering scent of jasmine, the floodlit dome of St. Peters, the sudden blue flash from the arm of a trolley bus, "Traviata" floating up from a kitchen window, the winking lights of air liners low overhead, England, do-it-yourself and the Standard Method of Measurement a thousand miles away. Life was good.

Fausto de Mario was about thirty-two years old, of medium height, with short, black, newly washed but un-oiled hair. He looked impeccably clean in a cool, dark blue, lightweight suit, three times buttoned down the front, which showed half an inch of white shirt cuff below the jacket sleeve. His skin was dark and even the whites of his eyes seemed sunburnt. His English was well phrased if slightly Americanized. "My pleasure," he said, as I shook his hand.

We talked of Rome, traffic and tourists before the conversation turned to building. Knowing Fausto was an architect I made some remark about the number of buildings under construction in the towns we had passed through on our drive from the north, and in Rome itself.

"We like to build plenty in Italy," said Fausto. "This is our character, to be modern. We must always have the new scooter, the new auto, the new-style suit, we hate last-year's model. This is one of the reasons that we build, to keep pace with architecture, which never stands still. But you must have noticed some of our roadside architecture—our service stations."

"Certainly, there was little else to watch for between Pisa and Rome, except the filling station signs—the international ones which are familiar at home and the Italian ones like the blue eagle and the six-legged dog breathing fire—."

"Ah, the six-legged dog that breathes fire," interrupted Fausto, "this is important. This is a symbol of the new Italy, the sign of Supercortemaggiore—la potente benzina Italiana—the petrol we find in the valley of the Po. This is the petrol of A.G.I.P.—and A.G.I.P. has the very interesting architecture."

The A.G.I.P. motel in Rome. Left, the dining room, see plans on facing page. Below, reception and a typical bedroom. The distant view of the motel on the facing page, illustrating its commanding position, shows the service station in the foreground



FAUSTO

The filling stations of A.G.I.P.—Azienda Generale Italiana Petroli—are to be seen everywhere in Italy. Few tourists can have failed to notice them, for they are made distinctive by a number of common, and not so common, denominators of which cleanliness, good lettering, attractive colours, reiteration of materials (in particular the facing of klinker—a brown butt-jointed, ripple-faced tile 2in wide set vertically), good advertising and a large forecourt are the more obvious. It is the subtle attraction to the motorist of all these things that has been exploited with skill by A.G.I.P.'s central office of architects in Rome. "A.G.I.P. is one of the big things that has happened in Italy since the war," said Fausto. I am tempted to agree with him.

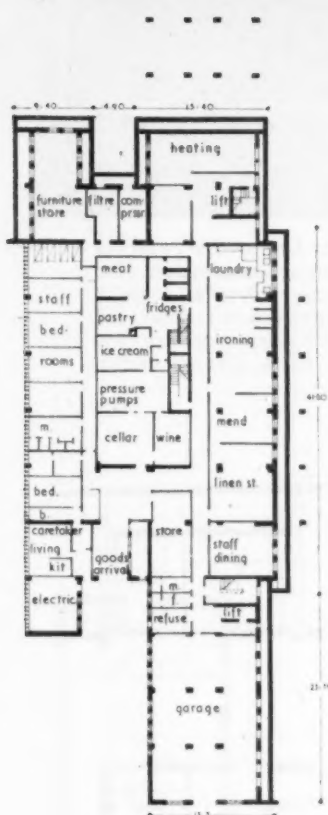
"But cleanliness and good design alone are not enough for us," he continued. "Even a forecourt so

long that you can accelerate across it before you reach the pumps, this is not sufficient. We must have coffee and shower baths and good food always at hand. So A.G.I.P. provides this, too."

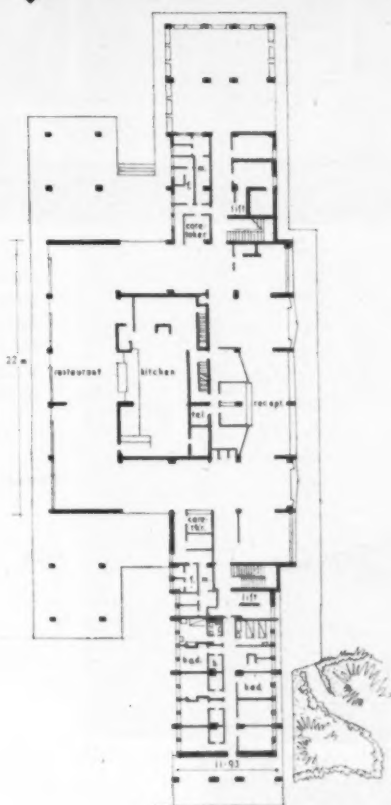
I thought of the A.G.I.P. service station we had called at three days previously at Follonica—some 140 miles north of Rome. I remembered the cool bar and the airy restaurant adjoining it. Washrooms and toilets faced seven feet high with mosaic tiles—no writing on the walls there. The washrooms were indicated not with lettering but by four-inch-high red plastic cut-outs of men and women stuck to the face of their doors. There was a square, full-height column, in the bar, of exposed aggregate concrete. A three-course, fixed-price meal at Follonica—or, indeed at any A.G.I.P. restaurant—costs about seven and sixpence, and for a little less than that



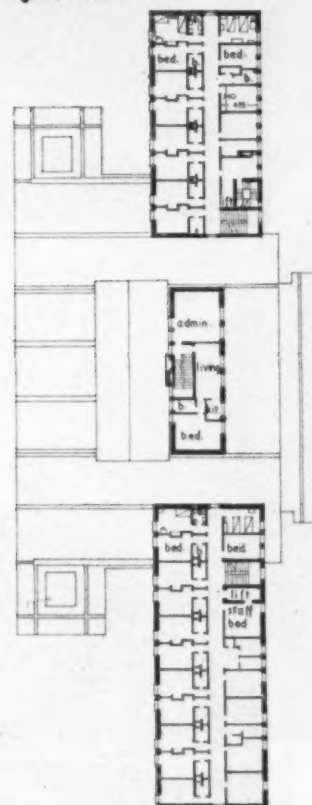
BASEMENT



GROUND FLOOR



TYPICAL BEDROOM FLOORS



amount A.G.I.P. will wash and service your car for you while you eat—the wash including a high-pressure hosing of the underside, which is as rare in my part of England as wine upon a building site.

I was about to speak to Fausto about Follonica when our host, excusing himself, introduced to me an elderly English lady, a resident of Rome, who was anxious to know if I had seen "My Fair Lady". Cock-tail parties being what they are I did not see Fausto again until we were in the lift going home, and it was then that he invited me to visit one of the more recent A.G.I.P. enterprises—their motel on the Via Aurelia, just north of Rome.

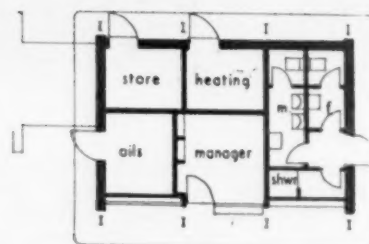
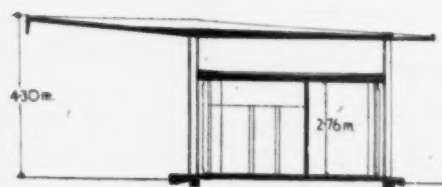
Fausto's car was a small one which he drove with the confident abandon of a man who has just robbed the bank. It was not pleasant at first sitting next to

him, even with one's eyes shut, but I quickly found that he was technically expert if by nature a little carefree, and we reached kilometre 8, the site of the motel, with not so much as a crumpled wing.

A.G.I.P.'s Motel Aurelia stands on a slope facing south-west across flat country towards the sea. At its foot and adjacent to the main road lies a large service area with garages, wash-bays and petrol pumps as well as a sizeable building incorporating bar, snack bar, tobacconist's and barber's shops and an information office. The motel itself is, by any English standard, luxury accommodation. It has beds for two hundred and fifty (all rooms with telephone and hot and cold water, and most with private shower too) and a restaurant with a long, shady terrace, stretching across the foot of the two main accommodation blocks, which



The new standard A.G.I.P. service station is illustrated on these pages. (The Grosseto Station, 110 miles north of Rome, is illustrated here.) Above, left to right, washing-bay, attendant and w.c.s and bar. Below, plan and section of the centre unit



FAUSTO

seats four hundred. We inspected the reception area and the restaurant, marble floored and cool, the cloak-rooms and the bar. Upstairs each bedroom was clean, inviting yet unpretentious. I was surprised, too, at the very reasonable charges—just over two pounds per day, full-board, for the most expensive room, including taxes, service charges and outdoor car park.

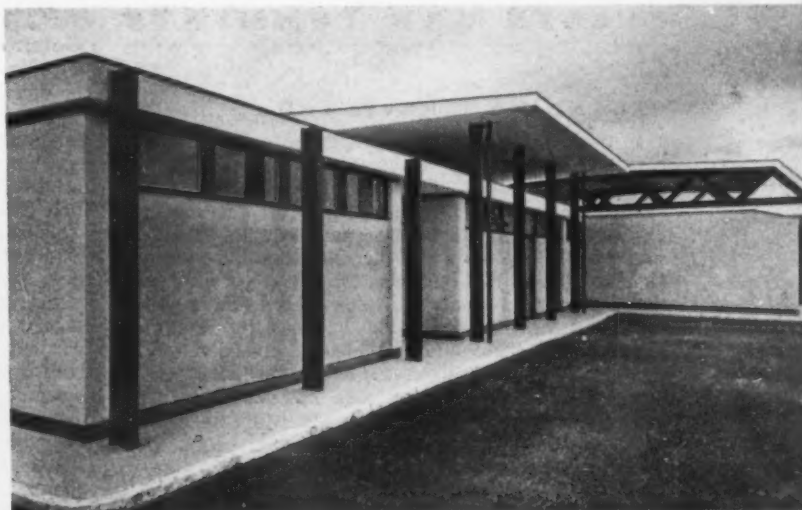
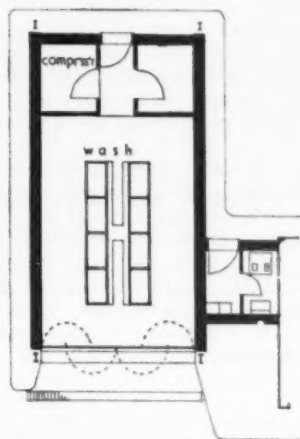
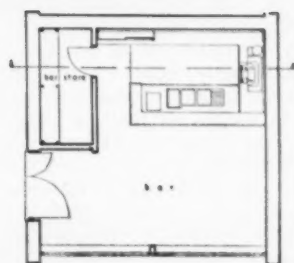
Later, driving back to Rome, Fausto spoke of A.G.I.P.'s plans for a new type of service station.

Some of these have now been built.

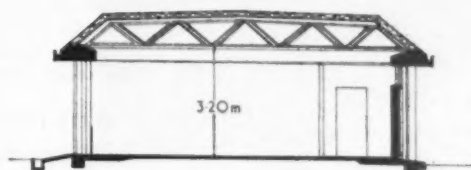
"There is a need now for a service station that is easy and quick to construct, adaptable to different positions and conditions. A.G.I.P. plans to build new stations of a steel-framed structure incorporating one or more of the different elements that such a building needs—accommodation for attendant, canopy, wash-bay, workshop, bar, shops and whatever. The design will be basic, varied for each site. In this way there is



Above,
the bar.
See below for
the plan



Above, top, back view of service station. Above, the washing-bay. To the left, the plan and a long section through the washing-bay, also the link between the washing-bay and the attendants' office containing the mechanics' w.c.



economy by standardization and yet always the possibility to enlarge and to extend a station when increasing traffic demands this. This is an interesting concept, no? I think you may agree that A.G.I.P. architecture is beginning to make other service stations in Italy look a bit untidy. A little bit more untidy each year."

By now we were re-entering the maelstrom of Roman traffic, dodging unrelenting mopeds and scooters and clanging trams. Fausto seemed unaffected by it all, and,

swerving to avoid an approaching lorry, said, "Do you have time for another coffee?"

I had both the time and the need of one.

"I think you thought we would hit that lorry," he continued. "So did I. But usually is all right. In Rome driving is not difficult because in Rome you always know what the other man is going to do. He is going to do the stupid thing. Ah, here is a good bar. We stop."

EVENTS AND COMMENTS

"PLANNING" REVIEWED

In the B.B.C. "Building Matters", Mr. Edward Mills reviewed the current technical books including the A. & B.N. publication "Planning". Mr. Mills gave details of the make-up of the book saying that it was now in its 8th edition, having first been published in 1936. He said that he was surprised that churches were omitted. He also thought that buildings were now so complicated that planning information on them should be presented in tabular form and suggested that, in a future edition, this type of presentation might be considered. He thought that standardized and tabulated facts were of more value to an architect than detailed information and specific planning solutions. Mr. Mills finished up by saying that "Planning" was a valuable book, even if its price was three guineas.

CITY PLANNER, NEWCASTLE

The Council of the City and County of Newcastle upon Tyne has decided, after consultation with Professor J. S. Allen, president, R.T.P.I., to set up a separate town planning department under a city planning officer, at a salary in the scale £2,930 to £3,265, with essential user car allowance. The new department will, it is estimated, cost the Newcastle ratepayers about £52,000 a year and will include eventually on its staff some 20 qualified town planners. The council believes this to be an important step in civic administration. Its success will, no doubt, depend largely on the man appointed and his ability to work closely with the city architect. The word architect, by the way, is not mentioned in the report.

ANOTHER BUILDING PROFESSOR

While we in the south mumble on about Chairs of Building, the north gets on with founding them. Mr. John K. Page, B.A., has been appointed to the Chair of Building Science in the Department of Architecture at Sheffield University. He will collaborate with the Professor of Architecture in the work of the department and will develop and direct post-graduate studies and research on his subject, and will carry out and encourage original studies.

Mr. Page is at present Lecturer in Environmental Physics in the Department of Building Science of the University of Liverpool. He was for three years in the Colonial Liaison Section of the B.R.S., being mainly concerned with problems of hot climate building design. He also worked for a year under Mr. Llewelyn Davies at the Nuffield Foundation. He has been at Liverpool since 1957.

NATIONAL PARKS REPORT

We pride ourselves, that is if we think about it at all, that we have set up in the past 10 years a remarkable series of National Parks. The idea is now accepted but the money to protect, and to develop them along the right lines is not available. Less than one-tenth of a penny per person per year is devoted to the National Parks. This does not sound very much when expressed in this way; nor does the sixpence per head per year that the National Parks Commission would like. It seems absurd, but typically British, to set up an organization without sufficient money to maintain its objects. Our countryside, so often called our national heritage, is a wasting asset and even National

Parks are not exempted from the depredations of Government departments when they are looking for sites for installations deemed, by their promoters, to be of greater national importance than National Parks.

The tenth annual report of the National Parks Commission draws attention to the need for greater public interest in the parks and for the wider expression of informed opinion in support of them. It seems to me that there is far too little propaganda on the subject. This is, no doubt, due in part to the shortage of money. The commission wages a constant struggle against the purveyors of electricity and wishes that they were less reluctant to spend the extra money required to put their power lines underground. The commission is also worried about the changes in some of our best-loved landscape which are being brought about by the widespread substitution of conifers for hardwood trees under extensive private afforestation schemes, which seem to be increasing in number. Broadcasting and television transmitting aerials, which seem now to crown every commanding height, are also deplored. The trouble is that as much as the dear British public likes its lovely countryside, it likes "civilization" more.

MIXED BAG AT THE I.C.A.

If sticking pictures of Brigitte Bardot on cupboard doors is art then I'm an artist. Mr. Peter Blake has filled a corner of the I.C.A. with what schoolboys and soldiers, sailors and airmen would call pin-ups, and he has included the famous life-sized job of La Bardot which he has decorated with tinsel paint and, apparently—this is rather sinister—transfixed with various kinds of knives. In a large gilt frame a female-painted face wearing real sun glasses looks out above a bosom plastered with medals cut from old labels and coloured paper. Two Victorian dressmakers' dummies, one wearing general's, or are they admiral's, badges of rank, are similarly decorated. A girl-covered cupboard holds nothing but a pair of black-and-white-painted shoes. All jolly fun, which is a great deal more than can be said for Mr. John Latham's "Libraries".

These consist of compositions of burned books and molten metal, pipes, old batteries and wire stuck on grey-black backgrounds and hung vertically. Only the smell of "after the fire" is missing. As an essay in the exceptionally unpleasant these productions are a great success.

Theo Crosby's sculpture in white plaster and pieces of coloured and textured glass is gay and amusing for the most part. The likenesses, where they exist, are of the sculptor himself, as you might say, filled with broken glass. I liked particularly the two pieces named bachelor MK I and II. Crosby's collages of coloured tissue paper shown in the library are, to my mind, the best things in the exhibition. They have wonderful colour and exuberance.

THAT DUSTBIN

You will remember the A.B.S. competition which involved calculating the number of nails in a B.S. dustbin. Well, three firms of quantity surveyors had the jolly task of counting them and made the total 45,289. The nearest entry came from Mr. W. V. Morgan, of Newport, Mon., who calculated, or more probably guessed, 45,298; he won the boat given by Mr. Howard Lobb. Second prize went to Miss Pauline Witten, of Belfast, who thought that there were 45,277 nails. It would have been interesting to know how many entries there were and what were the outside guesses.

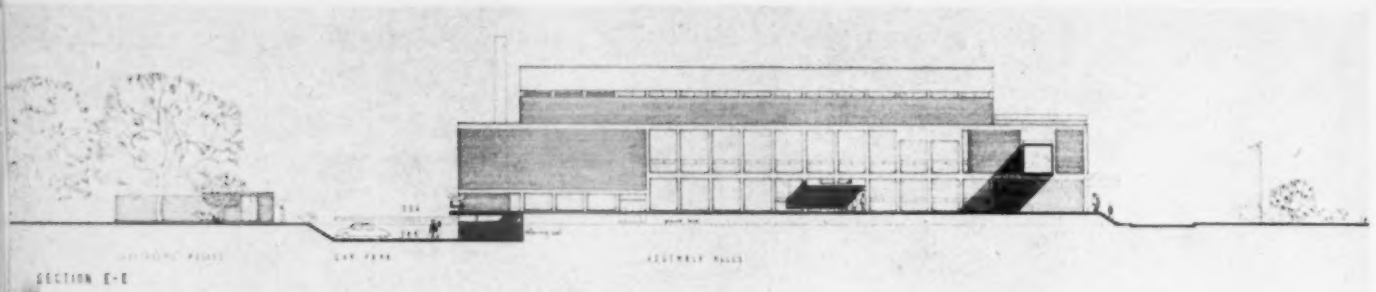
ABNER



- **First premiated design (£1,000)**
Enrico de Pierro, Nigel Farrington and John Dennys [No. 9]
- **Second premiated design (£750)**
John Peverley and Paul Buckhurst [No. 49]
- **Joint third (£250)**
Collicutt and Hamp [No. 12]
- **Joint third (£250)**
Peter Dunham, Widdup, and Harrison [No. 61]

Continued on page 48



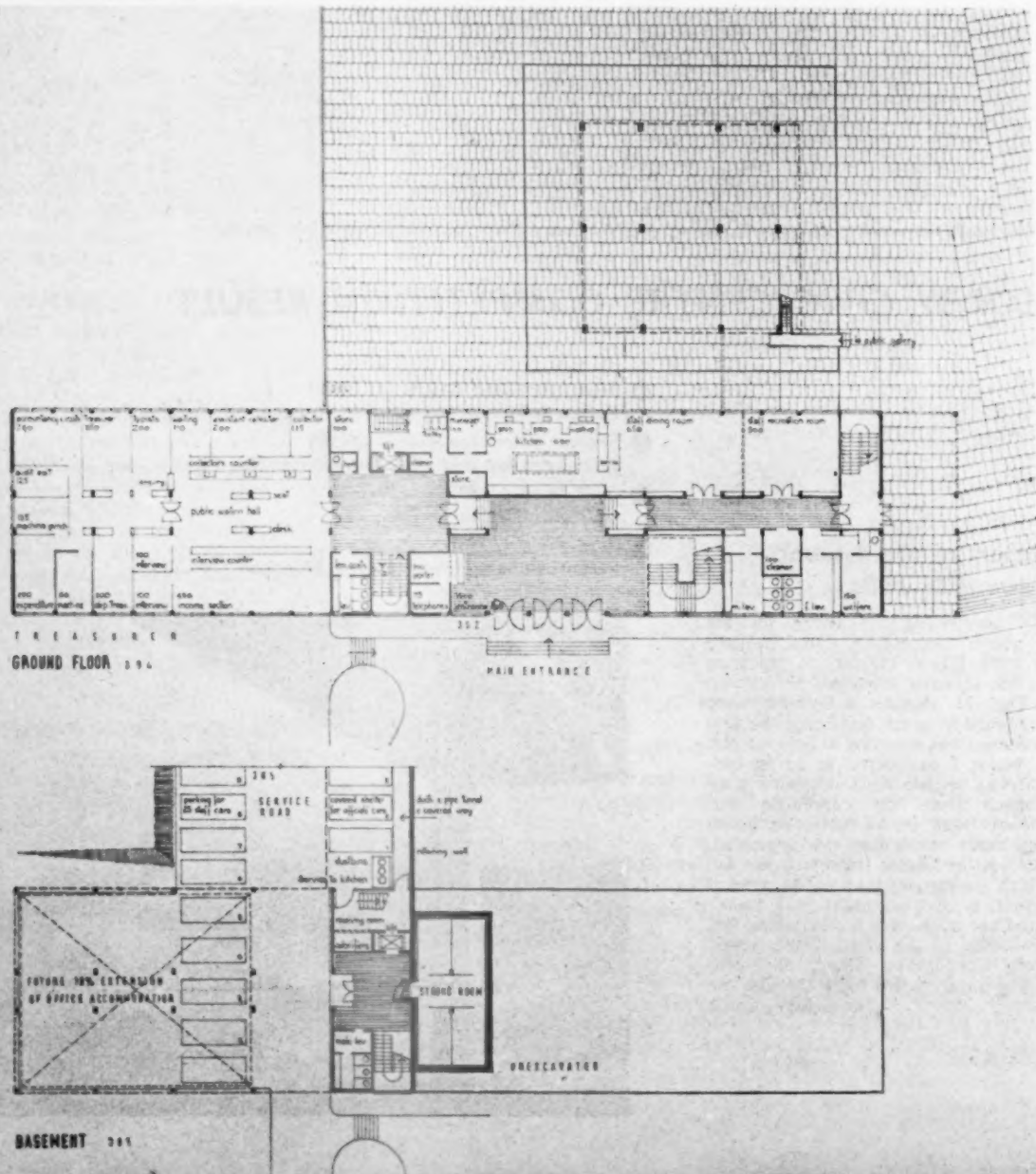


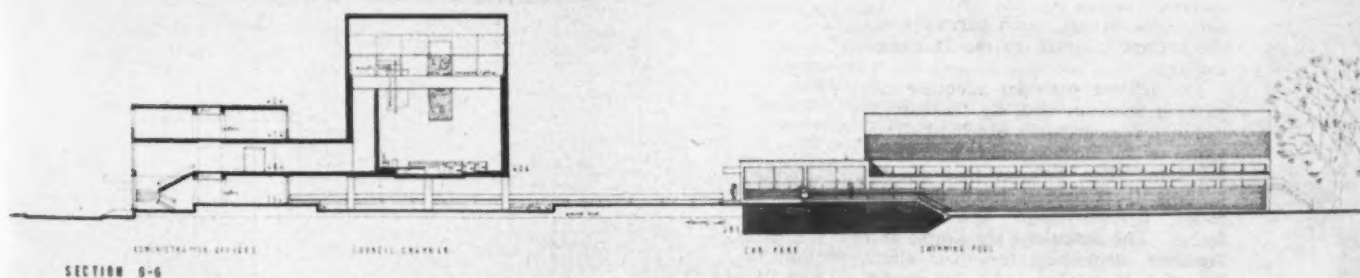
CORBY CIVIC CENTRE

In designing the general layout of building on the site the following principles were considered of primary importance. First, that the Town Centre, bounded at the east by the Police Station and Court House, should be visually concluded by a square of similar importance to the Market Place. Secondly, that the general line of the woods running from the back of the Technical College across the proposed by-pass should be maintained, and that trees should be visible not only for the length of Corporation Street, but also from all other approaches to the site. Thirdly, that the new Civic Square should be reserved for pedestrians, and that vehicular access should be strictly controlled, and that car parks should be as unobtrusive as possible. So that the Civic Square shall be used fully, entrances to the swimming bath and small hall are from it, and

▼ Below and facing page, plans of the Municipal Offices

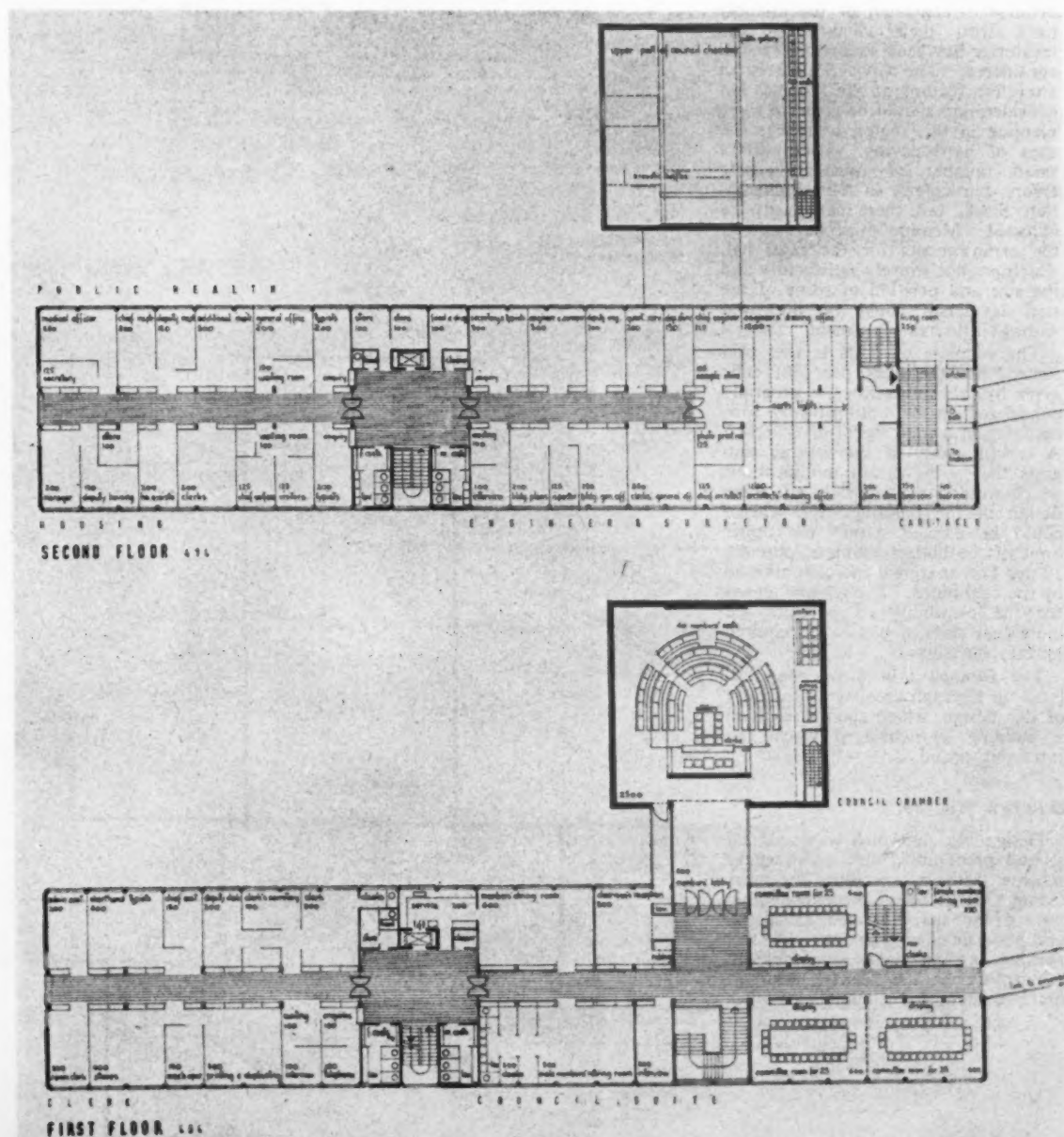
1 1901





First premiated design by Enrico de Pierro, Nigel Farrington and John Dennys [No. 9]

the existing public right of way to the north of the site is diverted to run through it. Structure: Offices, assembly halls and pool, to be of concrete frame and floor slabs, pre-cast and in situ. Council chamber to be of concrete floor slab on columns with loadbearing brick walls above slab. Caretakers' houses to be of loadbearing brickwork. Roof: Offices to be of pre-cast concrete sections. Assembly hall and pool hall to be of pre-cast post-tensioned concrete trusses with lightweight pre-cast slabs over. Council chamber to have timber strutting with timber joists. External walls: To be of cavity walling. External skin to be in facing brick, internal skin in loadbearing insulating building blocks



Continued from page 45

site to the woods, as an alternative to the present footpath by the Technical College.

The scheme provides adequate car parking facilities and, by the careful use of levels, provides excellent circulation to the various buildings and, at the same time, ensures that all car parking is concealed from the proposed by-pass road and George Street. The elevations are simple and dignified, depending for their effect on good proportions and the careful choice of materials, colours and textures. In this connection, the choice of treatment for the exposed concrete frame to the administration block will need careful consideration as this is not specified in the competitor's report, and painted concrete is not considered a suitable weathering finish for a building of this standard. The colour and material of the infill panels will also need careful consideration.

The planning of individual buildings is exceptionally good and the detailed arrangement of the assembly halls with their cloakrooms and lavatories has been exceptionally well considered. The Civic Square is an attractive feature of the scheme, but consideration should be given to some planting in this region to relieve the area of hard paving. There are a small number of minor planning errors, particularly in the administration block, but these can easily be adjusted. Mention must be made of the arrangements for the rates hall which are not entirely satisfactory and the size and position of some of the staff lavatories could be improved with a little rearrangement.

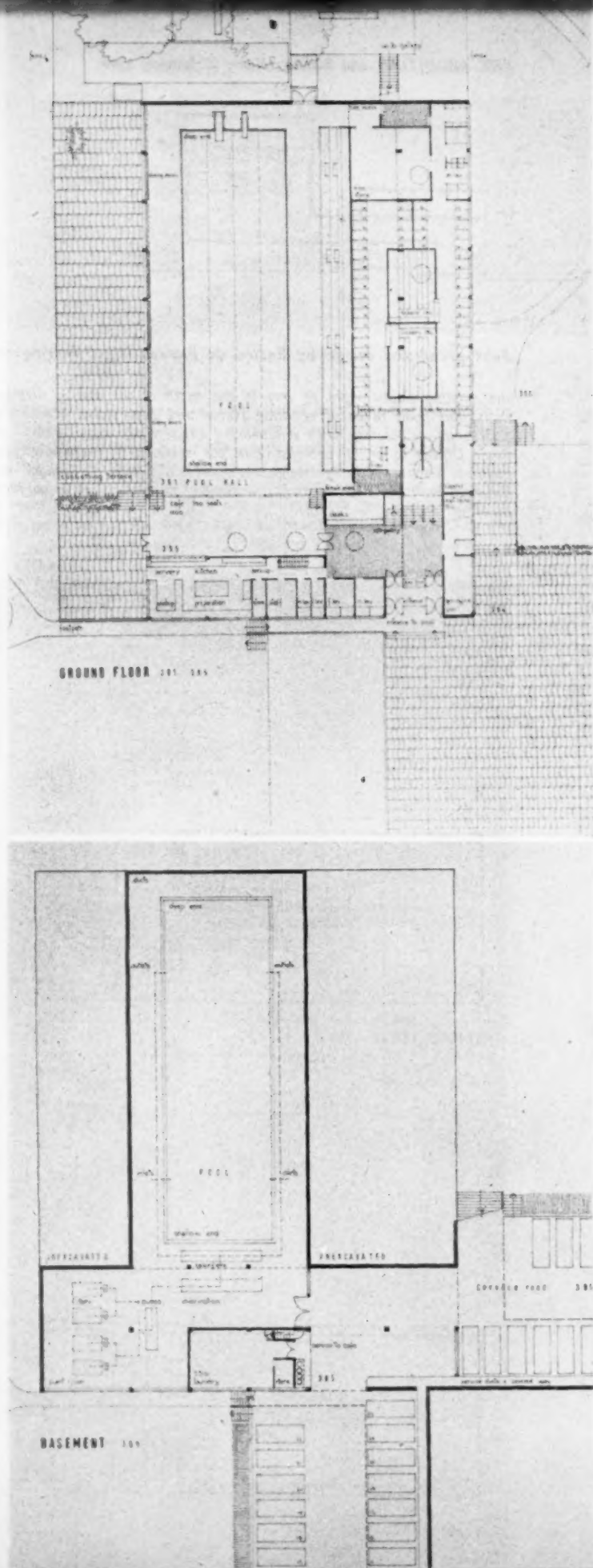
The estimate of costs is well presented, but the costs per foot cube given by this competitor are generally considered to be optimistically low, resulting in a total figure of £496,417. A careful study of the scheme suggests that with certain modifications which would not materially affect the design of the buildings, the scheme could be erected within the upper limit of the budget estimate, plus the 10 per cent marginal increase allowed by the conditions. The scheme allows for the possibility of building the individual units in phases as required by the conditions.

The Council are to be congratulated on the high architectural quality of this design, which should result in a building of which they can be justifiably proud.

Design No. 49

Design No. 49 which was awarded, second premium is also an excellent scheme with a spacious forecourt facing George Street, good economic use of the site, dignified elevations and good detailed planning. The car parking arrangements are not so satisfactory as the scheme awarded first premium, and a number of other

Continued on page 51



ESTIMATE OF COST

For the purpose of calculating the cubic contents of the buildings, the height is taken to include 3ft from top of foundations to ground floor, 2ft above flat roofs and halfway up pitched roofs.

Basements are only partly submerged and cost is partly accounted for by the service road excavations, and allowance has been made in the rates for these excavations.

	Cu Ft	Rate	Total £
MUNICIPAL OFFICES			
Main block	445,750	@ 4/-	89,150
Part basement	24,000	at 3/6	4,200
Lift and tank room	1,600	@ 2/6	200
Council chamber	134,232	@ 4/-	26,846
Link to assembly hall	6,000	@ 3/-	900

121,296

ASSEMBLY HALLS

Main block	733,050	@ 4/2	152,510
Basement	132,678	@ 4/6	29,852

182,362

SWIMMING BATH

Main block	514,869	@ 4/2	107,264
Basement	132,324	@ 4/6	29,772

137,036

CARETAKERS' HOUSES	23,108	@ 4/6	5,200
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LIFTS			6,250
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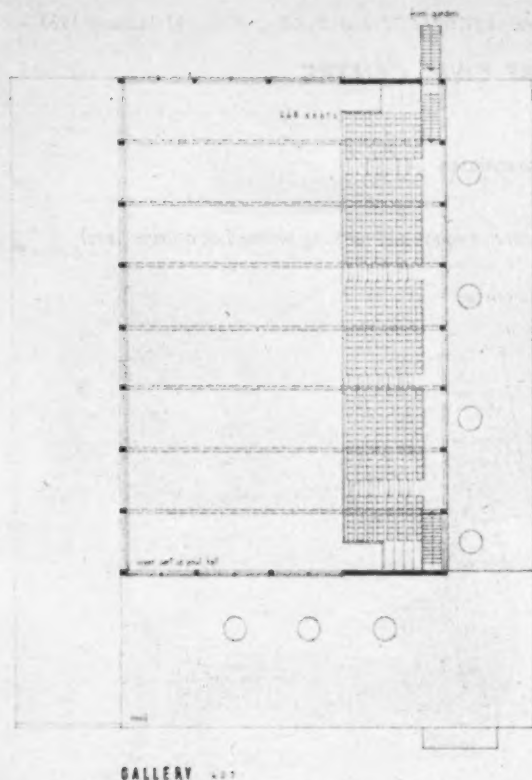
SITE WORKS

Paved court	4,310yd super	@ 30/-	6,465
Service road excavation and retaining walls	6,675yd super 5ft deep	12/-	4,005
Service road paving	6,675yd super	@ 40/-	13,350
Paths, etc.			2,500
Pool terrace	435yd super	@ 30/-	653
Tree thinning, planting and landscaping			5,500
Connecting to existing supply—gas			350
water			350
electricity			350
Site drainage	500ft agricultural drains approx.		750
Contingencies			10,000

44,273

TOTAL COST OF SCHEME

£496,417

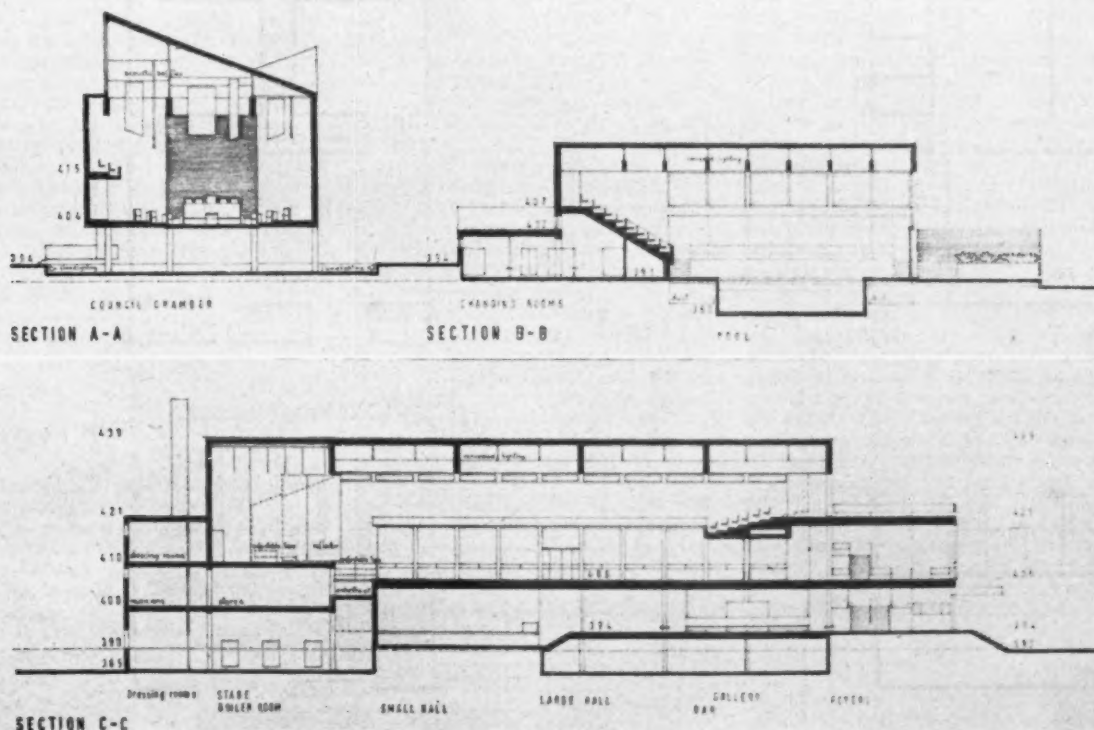


Above, and facing page, plans of the swimming bath

CORBY CIVIC CENTRE

First premiated design

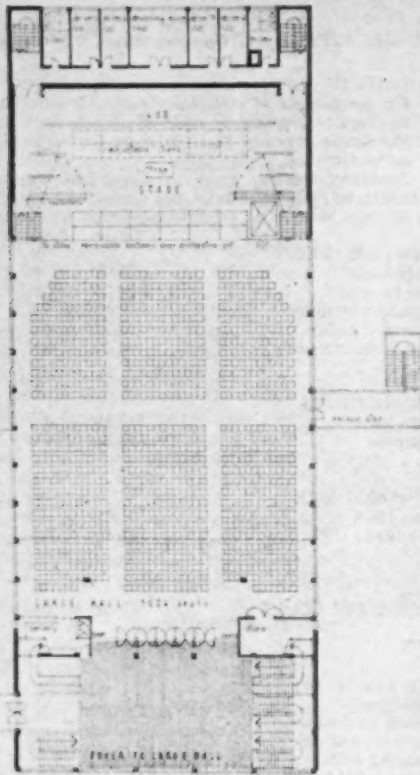
Swimming bath sections



CORBY CIVIC CENTRE

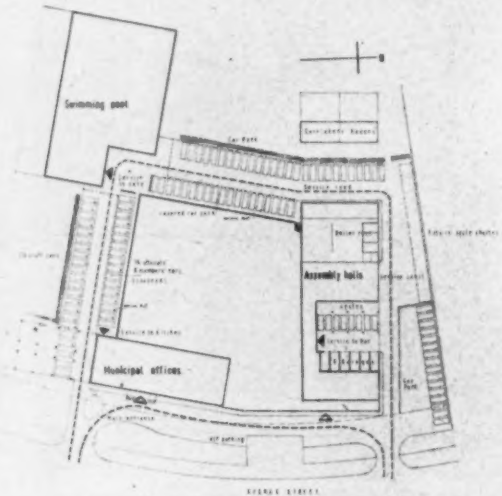
First premiated design

Below, service roads and parking planned at a lower level

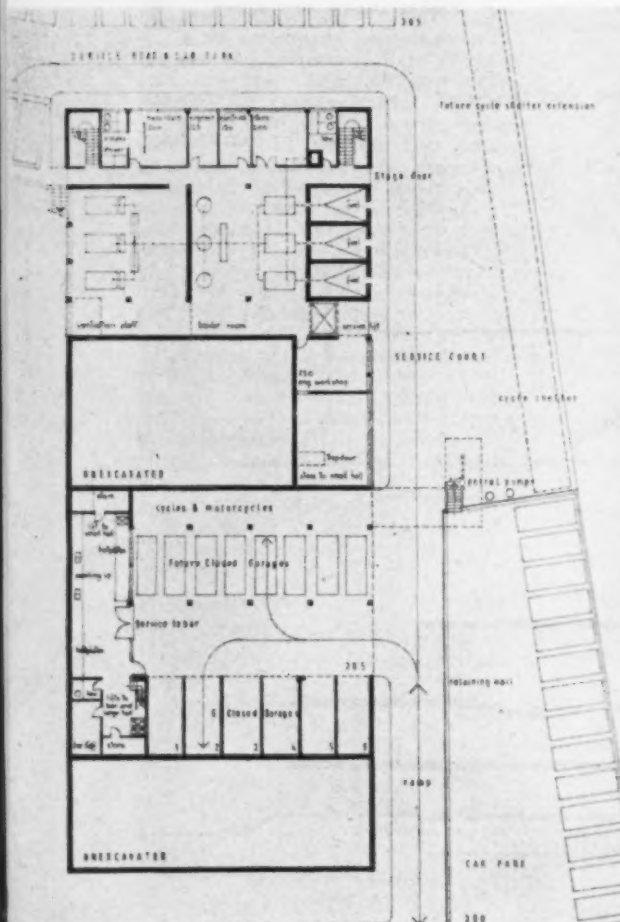


FIRST FLOOR

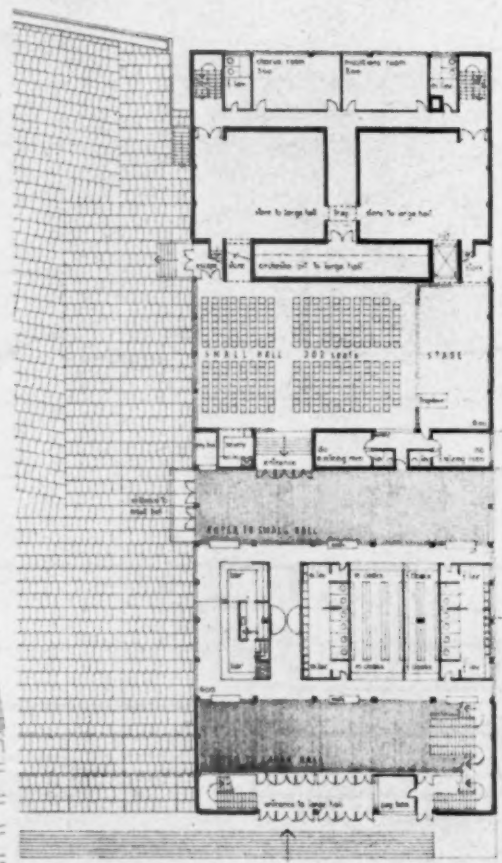
SERVICE ROAD & CAR PARKS 1:500



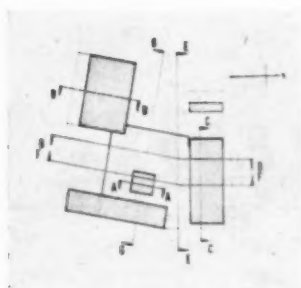
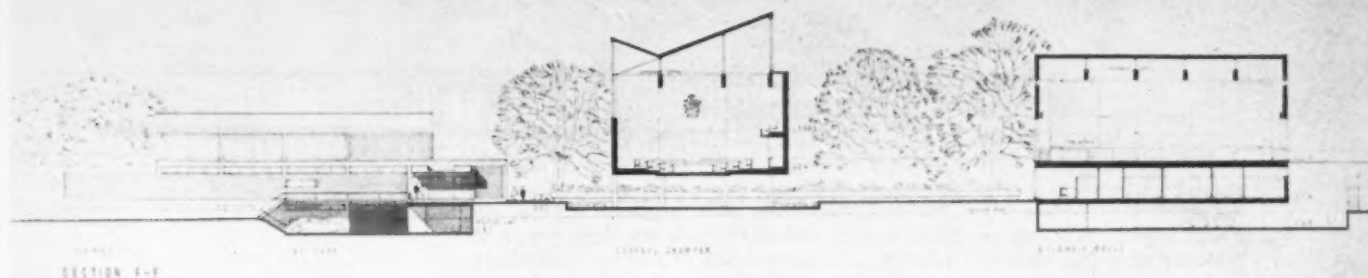
Above and below, plans of the assembly halls



BASEMENT



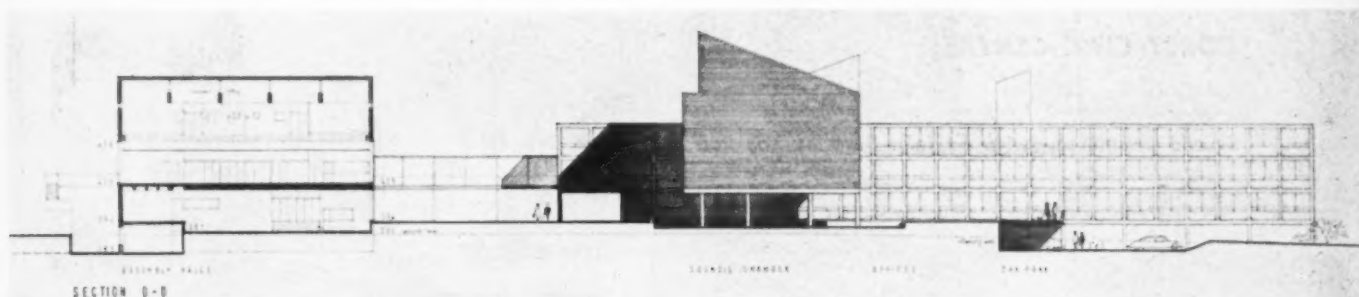
GROUND FLOOR



Key to sections

Vehicular access (see plan opposite) is from George Street and occurs at two points only. Direct access is allowed to the Municipal Offices and this is joined by a ring service road which leads to car parks on the north, south and west sides. Service entrances to each of the main blocks and to the caretakers' houses are approached directly from this road.

A wide, paved pedestrian crossing is situated at the end of Corporation Street and is the main pedestrian access to the square. Pedestrian bridges at the north and east of the swimming bath connect to paths leading into the woods and towards the proposed by-pass.



Assessor's Report Continued

Continued from page 48

planning faults can be observed, in particular the relation of the swimming bath to the office block which would lead to disturbance to the offices by noise from the swimming bath, particularly in summer months. Service access from the parking area to the swimming bath is inadequate. Although the detailed planning is generally good, the chair stores to the assembly hall are too small and the boiler house is inadequate in size. The competitor did not submit a schedule of measurements for checking as part of his report as required by the conditions, but the estimated costs given are considered to be reasonable and realistic and the scheme could be erected within the budget, plus 10 per cent.

Designs Nos. 12 and 61

Designs 12 and 61 were placed equally third. In the case of No. 12, this is a good compact layout with single entry to the site for road traffic. The detailed planning arrangements are not as good as the first and second premiated schemes. The assembly hall is not sufficiently adaptable for

the various uses envisaged. The caretakers' houses assume too much prominence in the scheme and the ugly factory chimney would be too prominent. Detailed planning of the scheme is, however, excellent in parts and in particular the plan of the swimming bath and stage planning in the assembly hall. The elevations are simple and attractive, but the estimate is extremely optimistic.

Design No. 61 has a well-considered layout with a car park well screened from the roads and the untidy side of the technical college well screened from George Street. One major disadvantage of the layout is the fact that access to all buildings is through the car park. The assembly hall ground floor cloakroom planning, which is an important part of the programme, is not as good as the first and second premiated schemes and the open sided arrangement for the assembly halls would not be satisfactory in practice. The elevations are interesting and would mass well, giving a dignified appearance from both George Street and the new by-pass road. Traffic routing throughout the scheme has been well considered. The estimate figure of £509,238 is realistic.

All four schemes are extremely well presented, No. 9 being particularly attractive in this respect, showing evidence of a great deal of research and careful study of the problem.

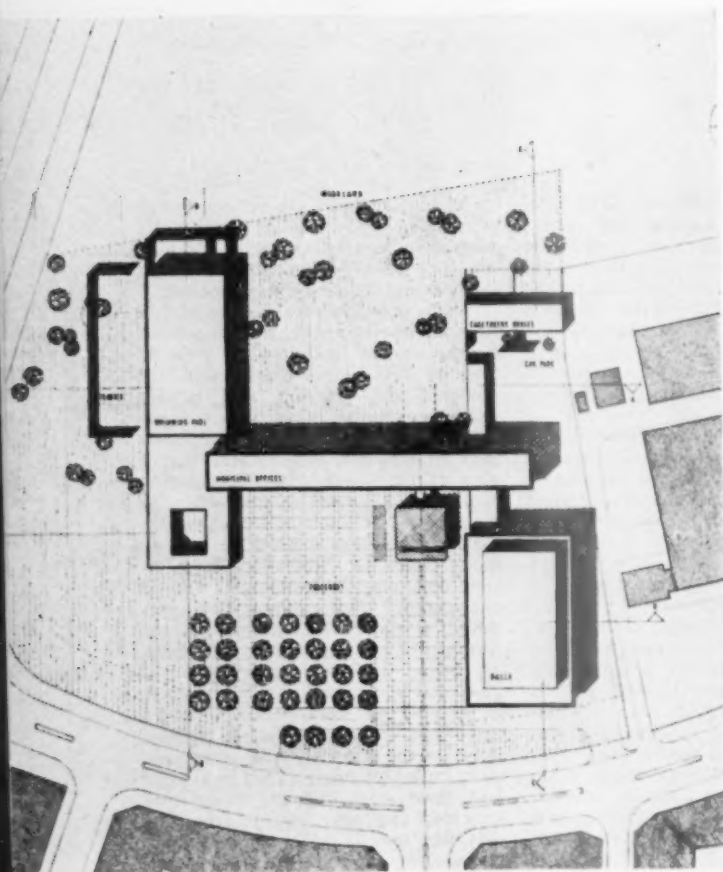
The competition produced a number of interesting and ingenious designs for the civic centre. Nos. 47 and 48 are to be commended for compact site planning and layout; many competitors ignored the requirement for compact planning and many also ignored the requirement that a view of the woods from Corporation Street was regarded as desirable. In general, the solution of the car parking problem was inadequate and in many cases the circulation, both inside and outside buildings, was ill considered. Few competitors produced a successful solution to the problem of the dual use of the assembly halls. The winning scheme was particularly successful in this respect. A number of competitors indulged in curious shapes and forms, particularly for the assembly hall and swimming bath and many failed to explain how these were intended to be constructed, and also ignored the fact that the use of such shapes would undoubtedly increase the cost of the building.

ELEVATION TO GEORGE STREET

SECTION 0-0

CORBY CIVIC CENTRE

Second premiated design by John Peverley and Paul Buckhurst [No. 49]



COST ESTIMATE

MUNICIPAL OFFICES

The cube rate is low as the cubic contents include an open area under the building and is measured to the outer face on plan of the structural mullions. Top of foundations taken as 4ft below ground level.

Including council chamber, link, basement, municipal offices, treasurer's department, link to assembly hall, boiler house chimney.

	£	£
634,400 cu ft @ 6/3½	...	198,800
Garage under assembly halls, 24,000 cu ft @ 6/-	...	7,200
Caretaker's bungalows (2ft foundations) 32,500 cu ft @ 4/3½	...	7,000
Total cost of municipal offices	...	213,000

ASSEMBLY HALLS

Top of foundations taken as 4ft below ground level

669,600 cu ft @ 6/-	...	201,000
Less cost of garage included above	...	7,200
Total cost of assembly halls	...	193,800

SWIMMING BATH

Top of foundations taken as 4ft below ground level

389,000 cu ft @ 5/0½	...	98,000
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Cost of layout, site works, etc.:

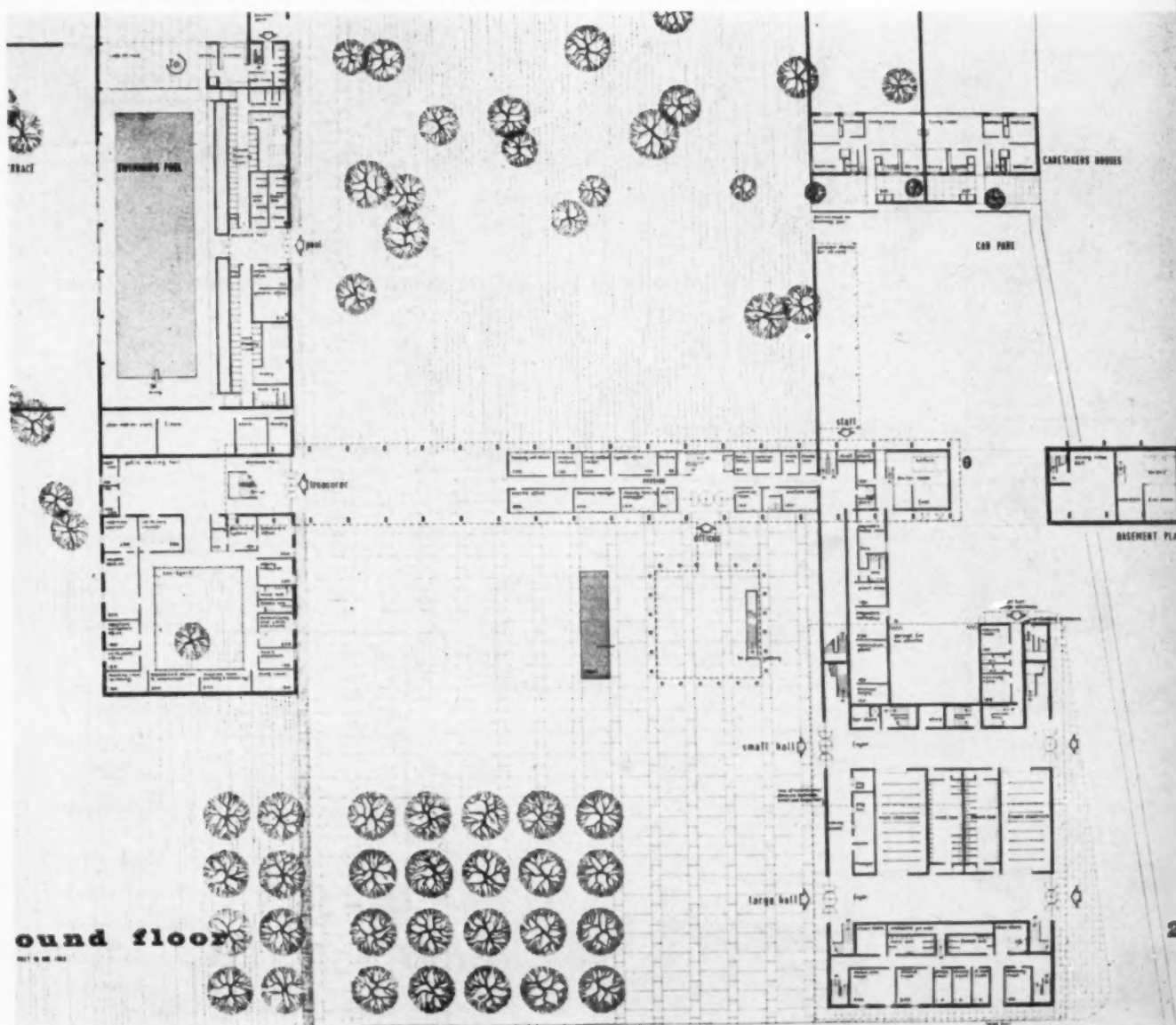
Pre-cast concrete paved areas	...	7,400
Tarmacadam areas, car shelter	...	3,500
Drainage	...	5,200
Gravel paved areas	...	500
Ornamental pool	...	1,200
General site contouring and grassing	...	2,000
		19,800

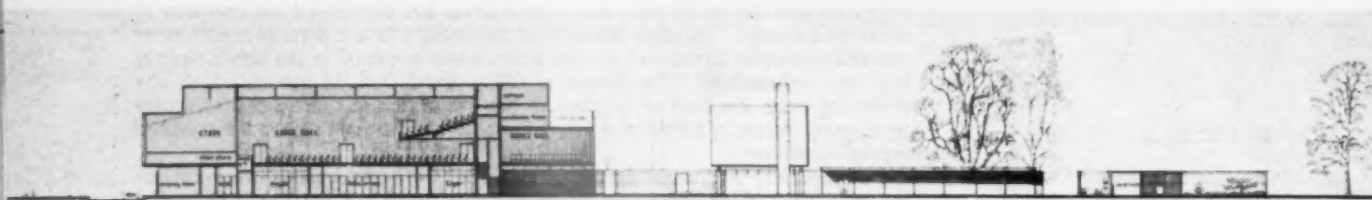
Total cost of scheme excluding professional fees and furniture	...	£524,600
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The essential requirement that the existing woodland to the west of the site should be visible and accessible from Corporation Street has determined the character of the three buildings. The assembly hall and swimming bath are parallel to each other and to Corporation Street, and provide a directional emphasis to the public right of way into the woodland. The Municipal Offices which link the assembly halls and swimming baths are built on columns so that whilst the spatial effect of a square terminating the end of Corporation Street is created, the vista through to the woodland beyond is retained.

The Civic Centre is grouped around three sides of a paved square, which acts as the focal point of the whole composition. . . . The fourth side is partially formed by a geometric gridwork of low, dense, deciduous trees, which also continue the southern line of Corporation Street, projected onto the site.

Below, the ground floor plan. The first floor is shown on page 54

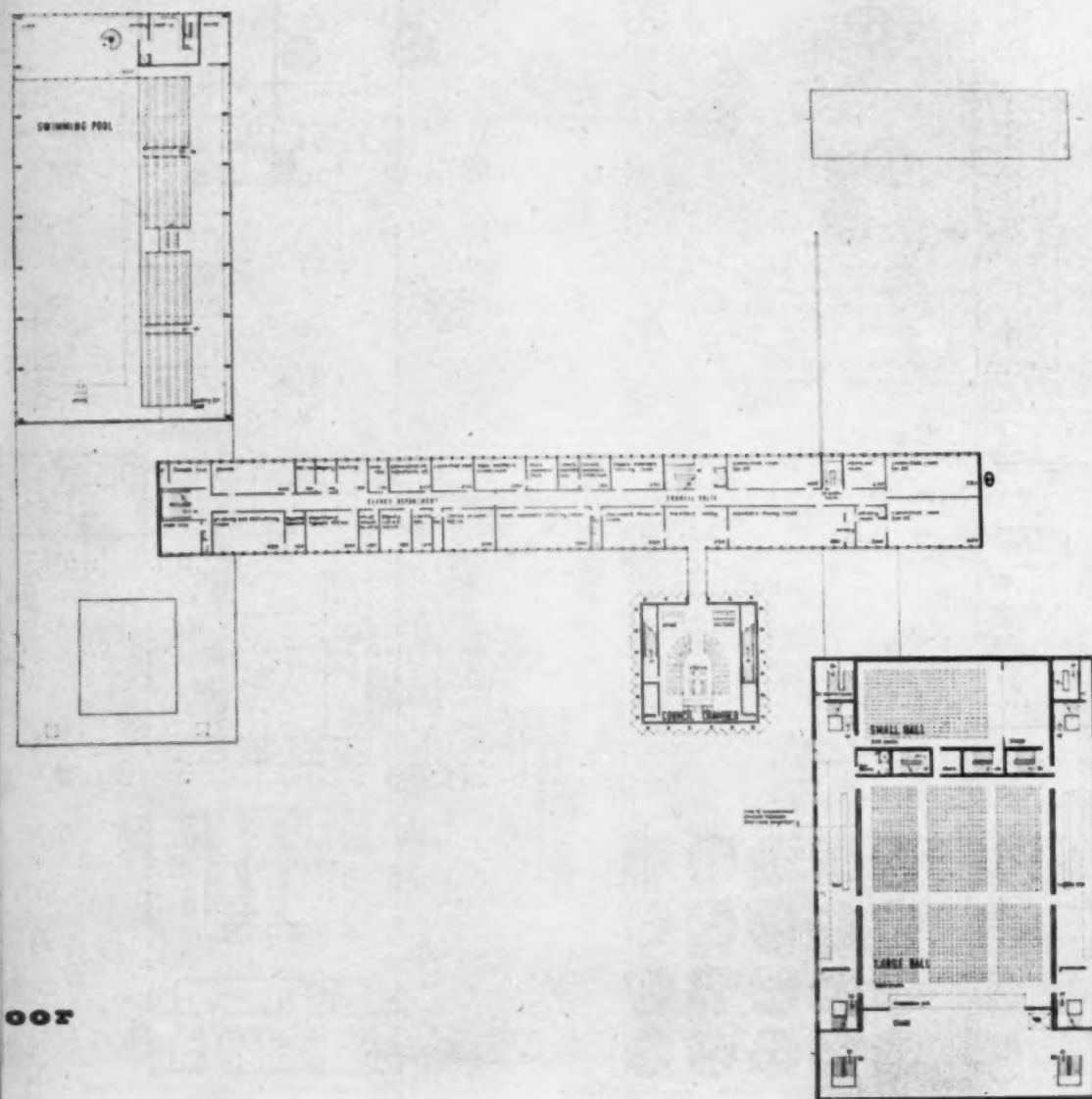




Above, a section taken through the assembly halls. Below, the first floor plan

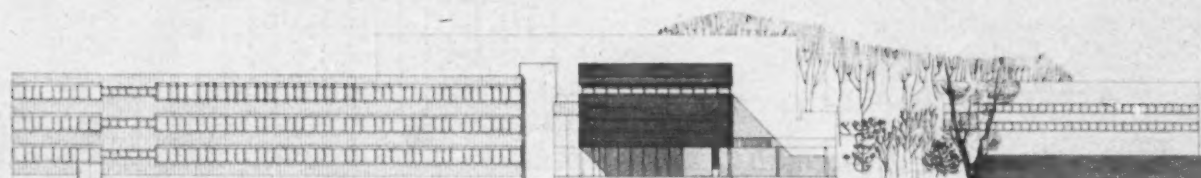
CORBY CIVIC CENTRE

Second premiated design by John Peverley and Paul Buckhurst [No. 49]

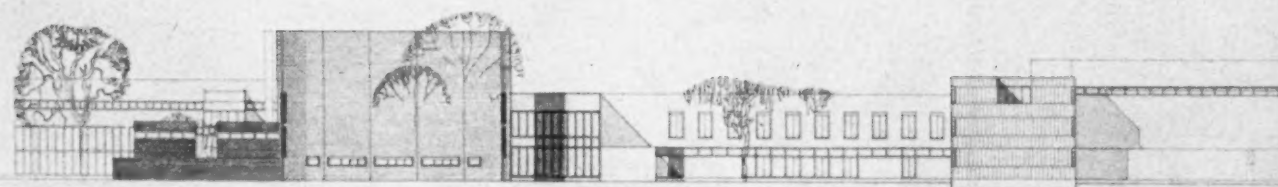




NORTH ELEVATION



EAST ELEVATION



WEST ELEVATION

Third premiated design by Peter Dunham, Widdup, and Harrison [No. 61]

COST ESTIMATE

MUNICIPAL OFFICES, ETC.

		£	£
(a) Council chamber	116,064ft cube @ 8/-	47,426	
(b) Entrance hall	73,248ft cube @ 6/-	21,974	
(c) Canteen, etc.	136,032ft cube @ 6/-	40,810	
(d) Departmental offices	325,928ft cube @ 6/-	97,589	
			207,799

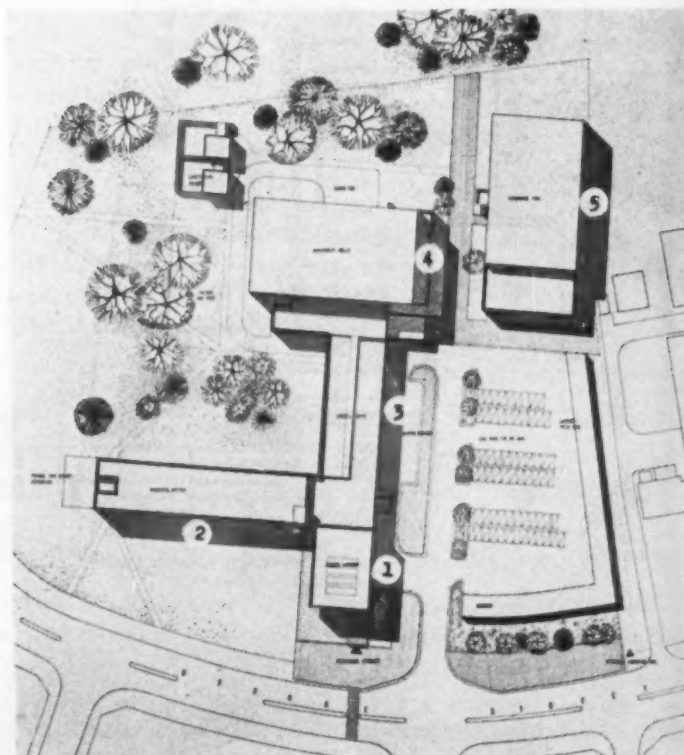
ASSEMBLY HALLS

(a) Entrance and foyers	88,640ft cube @ 4/3	19,836	
(b) Small hall	77,326ft cube @ 4/3	16,432	
			36,268
(c) Cloakrooms, dining rooms, lavatories, etc.	130,052ft cube @ 7/-	45,518	
(d) Assembly hall	459,122ft cube @ 4/-	91,825	
			173,611

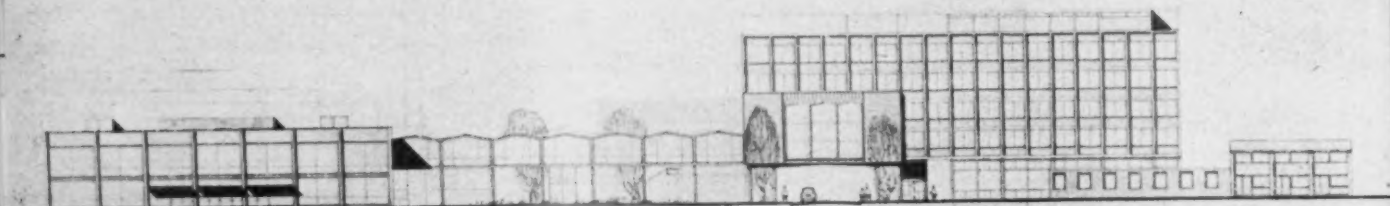
Swimming pool	546,640ft cube @ 4/-	109,328	
			109,328
External works including paved concourse		12,500	
			12,500
Garage and cycle store	...	3,000	
			3,000
Two caretakers' houses	...	3,000	
			3,000

Total, excluding furniture and professional fees £509,238

KEY. 1. Council chamber. 2. Municipal offices. 3. Council suite. 4. Assembly halls. 5. Swimming bath.



SOUTH ELEVATION



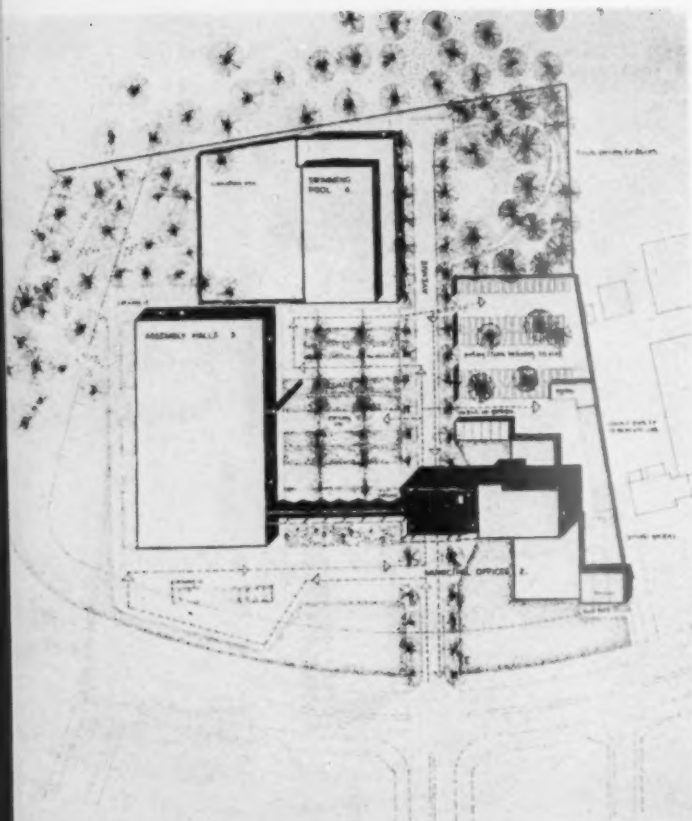
GEORGE STREET ELEVATION



WEST ELEVATION

Third premiated design by Colcutt and Hamp [No. 12]

CORBY CIVIC CENTRE



COST ESTIMATE

MUNICIPAL OFFICES	Cu Ft	£	Totals
Offices	566,798 @ 6/-	170,039	
Three houses	25,740 @ 4/-	5,148	
Total for municipal offices ...	592,538	175,187	175,187
ASSEMBLY HALLS			
Halls	991,822 @ 3/-	148,773	
Covered way	16,250 @ 6/-	4,875	
Total cost of assembly halls	1,008,072	153,648	153,648
SWIMMING BATH	356,288 @ 3/10	68,289	
LAUNDRY			
Filtration plant	21,252 @ 7/3	7,703	
Total cost of swimming pool	377,540	75,992	75,992
BOILER HOUSE			
Ventilation plant in halls cube			
Boiler house			
Fuel store			
Areas	96,096 @ 7/3	34,834	34,834
GARAGES			
Six lock-up garages	10,260 @ 2/4	1,197	
Fourteen members' cars and cycles	26,980 @ 1/5	1,911	
	37,240	3,108	3,108
Layout, site works, external works and landscaping ...		22,800	22,800
TOTAL COST OF SCHEME		£465,569	£465,569



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NEW PARTITIONS II

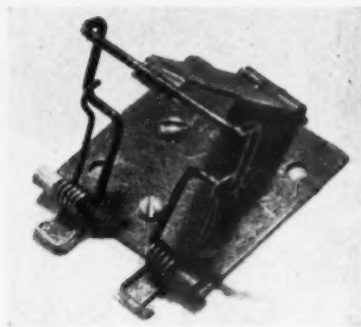
THE WALWAYS SYSTEM

A NEW partition has recently been introduced by Walways Limited, known as the "Walways System". The partition offers four primary advantages: first, a positive fixing without defacements to floor, ceiling, or wall. Secondly, ease of movement. Thirdly, flexibility (there is no modular restriction). Fourthly, any finish may be specified.

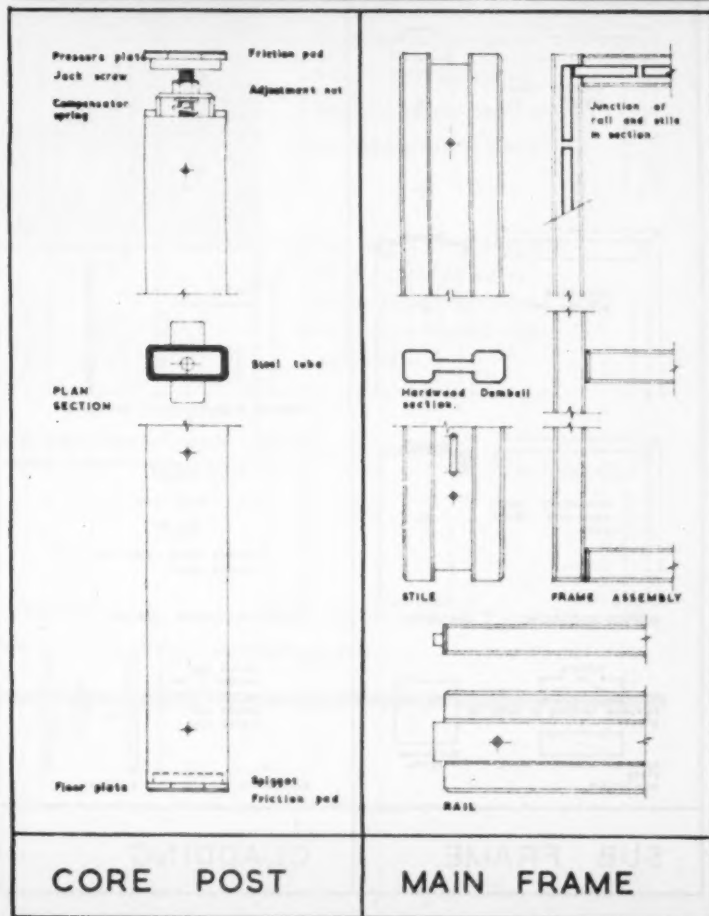
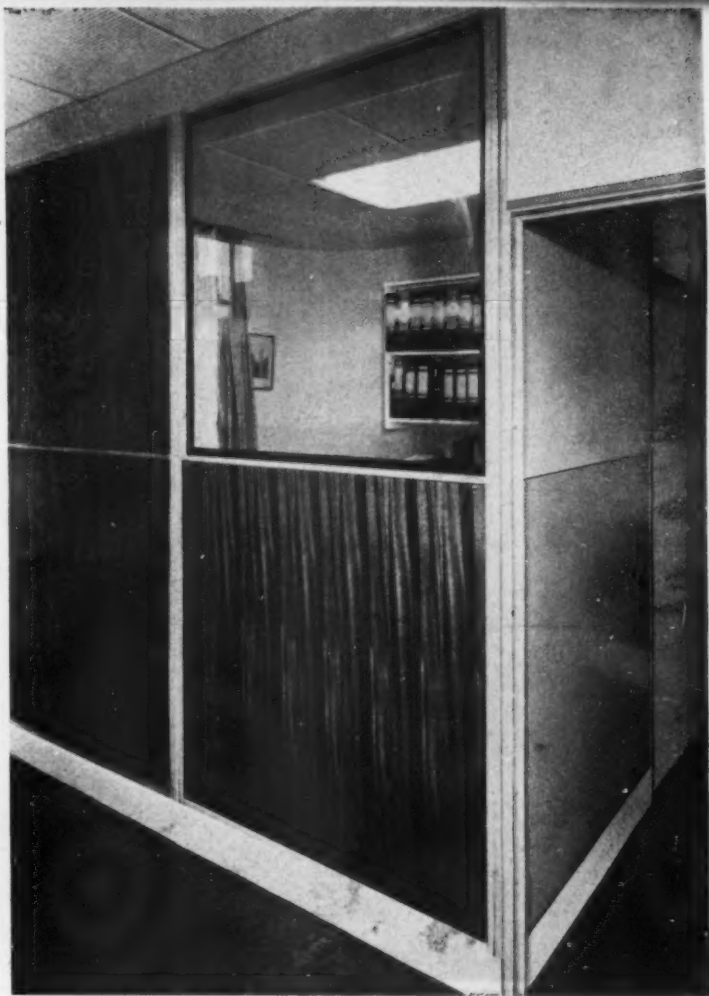
Erection

The primary structural unit of Walways partitions consists of a steel pressure post incorporating a screw jack with compensating spring. The partition unit, itself, is entirely self-contained and independent. This central core post is the only fixing link that is necessary to the building.

Having fixed these core posts at whatever centres are required, the site work is virtually finished, except to make allowances for inaccuracies to the building itself. To fix the units to these core posts is the next process and this is done by sliding the unit



Top right, a three-way junction in a 4 ft. module of timber and plastics veneered panels. Right, detail of the steel pressure post and "dumb-bell" section. The latter, placed in different combinations, provides connection with the posts and houses the various sub-frame members (see also isometric detail on page 58). Above, the "Mouse-trap" panel clip. Panels are removed by applying a rubber suction pad to one face and pulling against the spring



THE WALWAYS SYSTEM



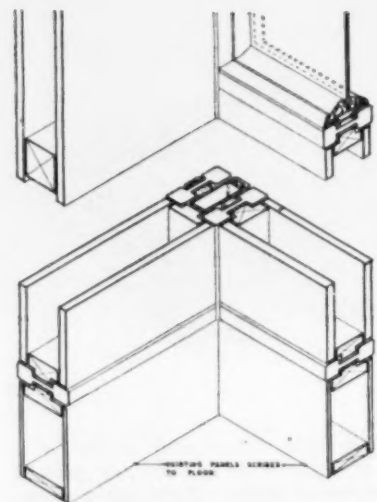
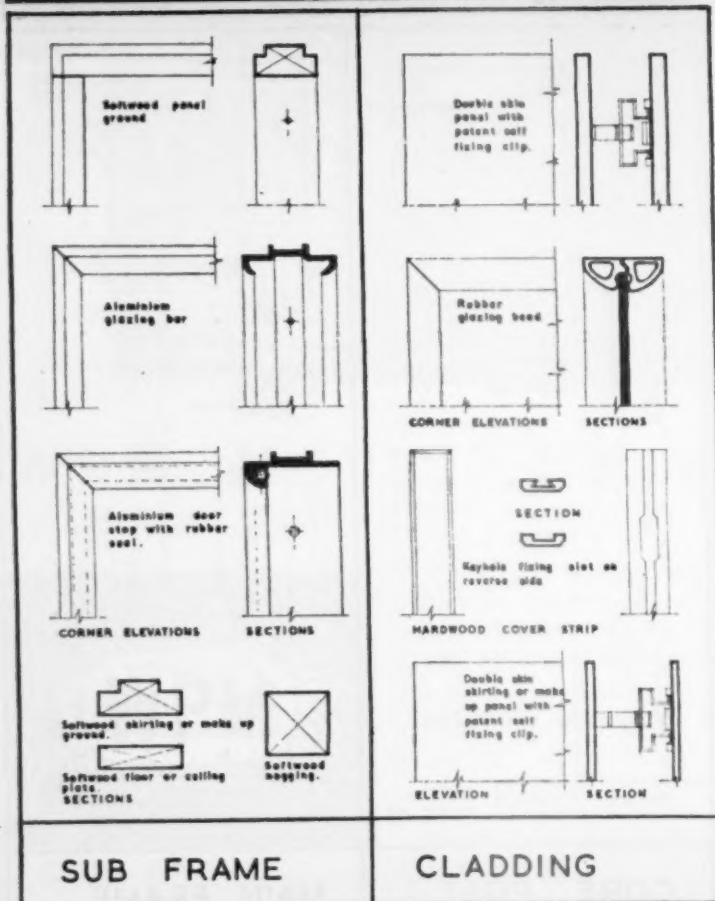
frame between the two posts and securing it with thumb screws.

This erection system is possible, and the cladding that is to follow is now possible, with the ingenious mechanism of a spring clip, known as the "Mousetrap".

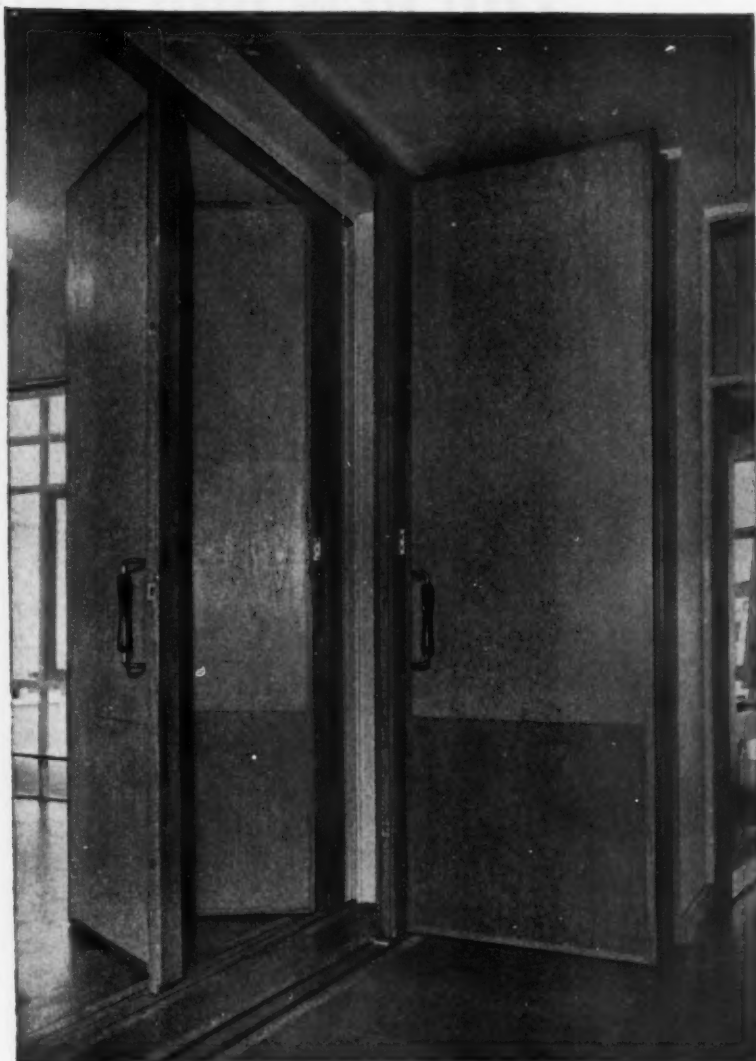
The panelling is simply offered up to the frame, the "Mousetrap" snaps into position and the panels are secured under constant tension. (This method of invisibly fixing is one of the essentials of the demountability of the partition and also of the final flushness of the finish.)

Cavity construction and standard insulation strips allow good sound and thermal insulation; and the standards of this can be increased virtually at will.

Flexibility of components enables the skirting to incorporate a variety of services, but, if necessary, to be sub-divided horizontally in accordance with Post Office regulations.



Top left, a door unit with glazed transom. Left, sub-frame sections (fitted within "dumb-bell" frame shown on page 57) and cladding detail. Above, a cut-away isometric section shows the core post, main frame, sub-frame and cladding combined to form a two-way junction



Noise politely shown the door

At Amersham School, these newly-installed Esavian screens shut out noise neatly and effortlessly. They have a sound-absorbent interior face and, on the outside, are finished flush with polished plywood. Vertical and horizontal seals and their internal construction provide a high degree of sound deadening. A reversible cill gives a perfectly flush floor when the screens are folded back. Top marks.

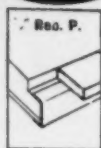
Esavian folding and sliding doors, screens and partitions are well worth knowing more about . . .



Developed in conjunction with the Ministry of Education Architects Department and the Building Research Station at Watford.

Esavian Ltd., Esavian Works, Stevenage, Herts. Tel : Stevenage 500. Esavian Works, Carfin, Lanarks. Tel : Holytown 391
185 Tottenham Court Rd., London, W.1. Tel : MUSeum 9772

Seven symbols of progress



2" C.P.P.

This symbol is applied to our 2" Channel Reinforced Pre-plastered Wood Wool Roofing Slab, which has all the virtues of our 2" C.R.F. Slab with the addition of pre-plastered soffit which is incorporated during manufacture.

The steel channel reinforcement makes it completely self-supporting over spans up to 7 ft., and in conditions of low to normal humidity it provides a most satisfactory roofing with excellent light reflecting and heat insulating properties—the calculated overall U value is 0.26 B.T.U. with $\frac{1}{2}$ " screed and felt finish.

The smooth, clean finish gives not only excellent decorative properties, but also provides good sound reflection, making it particularly suitable for buildings where this is required.

Like all Thermacoust slabs, 2" C.P.P. has excellent fire resistance: the rate of flame spread is Grade 1.

Please write for full particulars.

THERMACOUST LTD

ROOFING SLABS

20 ALBERT EMBANKMENT LONDON SE11

Telephone Enquiries (Southern)—London: RELiance 7281

Telephone Enquiries (Northern)—Doncaster 54138 Ex. 25

When supported on inverted "T" or Thermacoust purlins no special fixing arrangements are required.

Flat-top purlins or R.S.J.'s call for Type 1 site fixing clips.

Slabs may also be provided with any of the exclusive range of Thermacoust Pre-Clips for fixing copper, SNAPRIB aluminium, slates or tiles.



FOR NEW BUILDING



Think zinc, the versatile metal for building applications, from a complete roof to flashings and porch hoods. Easy to form and fix, it is an economical and durable metal which blends happily with all architectural styles. A modern building material, zinc has been proved in service for more than a century.

ZINC AT YOUR SERVICE. For further information write to the Zinc Development Association, 34 Berkeley Square, London, W1

THINK ZINC



NEW PRODUCTS

In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

New Thermal Insulation (A)

Low density cellular phenolic resin foams are now being used for thermal insulation and also as a lightweight core material for sandwich panels. They can be made in densities from 1 to 6lb per cu ft. This company supplies a resin, a hardener and a foaming agent for mixing together to make these foams. The mixture is poured into a mould for making large blocks for cutting into slabs. The complete mixing and foaming process takes less than 10 minutes. Typical properties of phenolic resin foam prepared in the laboratory at a density of 4lb per cu ft are: compressive strength to 10 per cent deformation—45lb per sq in; compressive modulus—700lb per sq in; thermal conductivity—0.27; flammability—self extinguishing; water absorption—7.2gm per cu in. The preparation of foam with a density of 4lb per cu ft is: 100 parts by weight of resin should be mixed with 7 parts of foaming agent paste and 24 parts of acid accelerator. Mixing can be carried out by hand, but it is recommended that machine mixing should be carried out whenever possible. The material can easily be sawn, when assembling panels, by conventional techniques. Our illustration shows (from left to right): (1) section of building panel faced with Waverite Mezzola pattern cut away to show

structural grade of foam; (2) block of lightweight phenolic foam (1lb per cu ft); (3) block of structural grade of phenolic foam (4lb per cu ft); (4) structural foam sandwiched between panels of Stelvetite p.v.c. covered metal sheet.

Bakelite Ltd., 12/18 Grosvenor Gardens, London, S.W.1. Sloane 0898. Readers' Information Service, Ref. A. Date 13/1/60.

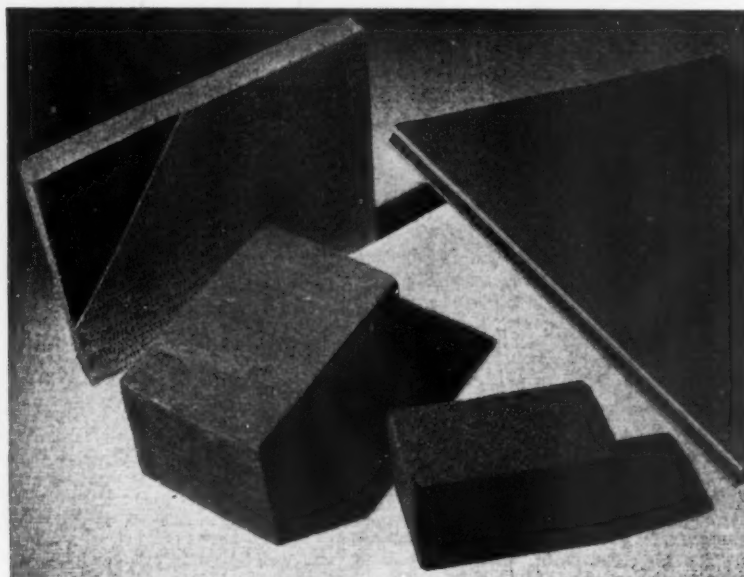
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Additional Hursel Radiators

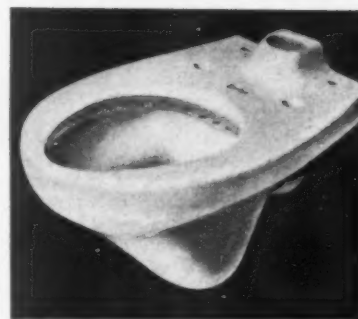
The Hursel range of Towel-Rad radiators has been increased to include three more models ranging from 0.350kW to 0.500kW, with a special model for greater drying capacity. They each have three heated towel rails and the lower section is an 11in high panel radiator which has sufficient heating surface to warm the average bathroom or kitchen. The towel rails are oil-filled and form an integral part of the complete unit. The radiator and towel rails are thermostatically controlled. Finish: white, pink or blue stove enamel.

Hursel Ltd., 229 Regent Street, London, W.1. Regent 1051.

Readers' Information Service, Ref. B. Date 13/1/60.



A



C

New School Closet (C)

A new wall-mounted closet made of vitreous china has been added to the "Standard" range of sanitary appliances. It is the Sanwall 12in model and is intended for use in primary schools, children's hospitals etc., and is similar in shape to the recently introduced full size model. Differences are that the rim is tapered towards the front of the bowl and that the inlet is raised. It is available with either a back horizontal or top vertical inlet. The Sanwall can be mounted on a concealed cast-iron chair-bracket for building into wall and floor; or the cast-iron bracket only for building into wall. When fitted, the Sanwall is clear of the floor making for easy cleaning.

Ideal Boilers & Radiators Ltd., Ideal House, Great Marlborough Street, London, W.1.

Readers' Information Service, Ref. C. Date 13/1/60.

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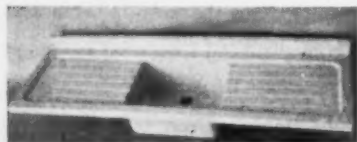
New Air Heater (D)

The Turbo-Static oil-fired air heater is a new appliance which is being made initially in three sizes, rated at 250,000, 350,000 and 500,000 B.Th.U./hr. It embodies a fundamentally new system of combustion air supply in that the mixture is 16lb of air to 1lb of gas oil, as compared with the conventional oil-fired air heater in which the mixture usually varies between 20 to 50lb of air to 1lb gas oil. The difference between the two forms of heater lies in the control of the combustion air supply. In this new unit a pressure blower forces air into the combustion chamber through a series of vaned slots in the inner chamber wall. The vanes impart a swirl to the air and two contra-rotating air streams are created. These air streams fulfil three distinct functions. First, the interaction between them creates air turbulence and provides complete and rapid mixing of the oil mist and the air. As a result of this, excess air requirements are reduced to a minimum. Secondly, the vortices hold the flame so that complete combustion is achieved in a limited space less than 15in long. Thirdly, the outer air stream forms a barrier layer to prevent the flame

NEW PRODUCTS

(continued)

from impinging on the chamber walls. This means that the size of the combustion chamber can be greatly reduced and is in fact about 15 times smaller than in conventional heaters. Also, there is no flame impingement to cause deterioration of the chamber walls. The chamber is isolated and insulated from the main air supply by two outer walls, through which the combustion air flows. Thus conduction heat loss is practically nil and combustion air is preheated to temperatures above the evaporation temperature of the oil mist, and instantaneous combustion occurs throughout the flame. Temperatures greater than 3,000 deg F can be achieved throughout the chamber and at this temperature all the oil mist is evaporated to eliminate soot-ing up. Approximately 5 per cent of the combustion air enters the chamber unheated, through angled slots around the fuel injection com-



E

ponents. This means that the injection components are cooled continuously and protected from the effects of the high temperature. Combustion gases are forced down the pressurized chamber into a heat exchanger through which they proceed in contra-flow to the main air supply so that maximum heat exchange is achieved in the shortest distance. Since the combustion chamber is under pressure, blow back is most unlikely to occur and combustion efficiency will not be affected by variation in wind or weather conditions; and the air supply to the burner does not have to be adjusted by a skilled operator. All controls and components are concealed beneath the casing so that there are no projecting parts to offer an obstruction.

Colt Ventilation Ltd., Surbiton, Surrey, Elmbridge 0161.

Readers' Information Service, Ref. D. Date 13/1/60.

★

Glass Fibre Sinks (E)

A new PRF range of glass fibre sink tops is made on a double lamination principle in order to provide a stronger product than is usually the case. It is claimed by the makers that they have overcome the tendencies to split and

craze, which have been characteristic of insufficiently stressed glass-fibre products. Double and single drainer units are produced with upstanding backs for flush fitting to walls. Two sizes of reversible single drainers without upstanding backs are also produced. Overflow and waste fittings can be supplied as an extra and tap holes drilled to order. It is claimed that the sinks will withstand abrasive action and boiling water. The range consists of the Sonning single reversible drainer (36in by 18in); the Kennet single unit with upstanding back (42in by 21in); the Avon single reversible drainer (42in by 18in); the Isis double drainer with upstanding back (42in by 18in) and the Marlow double drainer with upstanding back (63in by 21in). Colours: white, ivory, cream, blue, green, red and primrose. Prices from £7 10s to £13 2s 6d each.

Precision Reinforced Fibres Ltd., Meadow Road, Reading, Berks.

Readers' Information Service, Ref. E. Date 13/1/60.

★

New Flooring Adhesive

Synthetic Adhesive Plus 2/8 is a specially compounded flooring adhesive which is stated to have sufficiently good heat resistance to remain bonded satisfactorily during the normal service-life of the floor covering. It is considered specially suitable for use where inlaid floor heaters, infrared space heaters or arc lamps in television studios are used. It will bond rubber, lino and P.V.C. to concrete, wood and steel at temperatures of 150 deg F and is suitable for use where these floors are subject to constant heavy traffic. It is claimed to have good chemical resistance to detergents, acids, alkalis, fatty substances and petrol solvents. It is further claimed to achieve a very strong, immediate bond within minutes of sticking down and may obviously be considered for jobs when the floor must be capable of taking heavy traffic very soon after laying. Synthetic Adhesive Plus 2/8 is supplied in 1 gal tins and 5 gal drums at the respective prices of 40s 6d and 39s 6d per gal. Special discounts are given for large contracts.

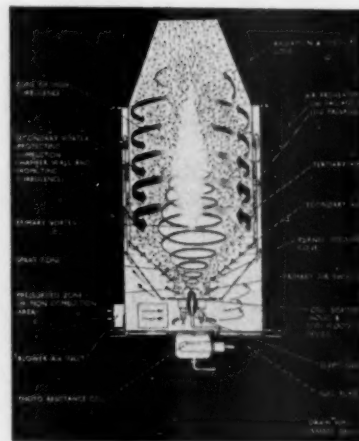
Plus Products Ltd., 1-68 Queensway, Team Valley Estate, Gateshead, 11. Low Fell 75687.

Readers' Information Service, Ref. F. Date 13/1/60.

★

Timber Framed Flexible Swing Door (G)

The Manby timber framed flexible swing door is a new addition to this maker's range of industrial doors. It is suitable for interior applications where pedestrian, light trolley or heavier traffic, such as fork lift trucks etc., are experienced or where severe draughts have to be dealt with. In

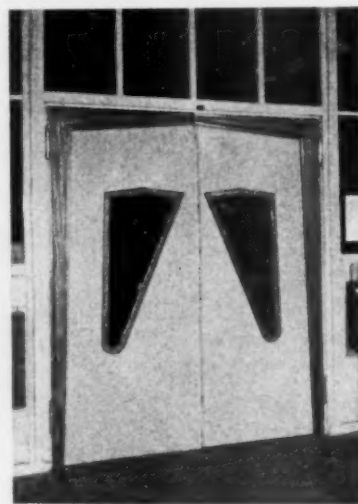


D

addition, the Manby door would appear to be suitable for use in hospitals, schools, offices, restaurants and institutions. The door comprises a cantilevered timber frame of clear design finished with a moulding. The main and window frames are supplied in mahogany or oak as standard but other timbers can be used if necessary at extra cost. The panels are made of flexible resin laminated rubber which remains sufficiently rigid to prevent distortion. Clear Perspex windows are provided in the rubber panels and the doors are available in black and white and in a range of colours including opaline green, turquoise blue, light olive green, peacock blue, salmon pink, yellow, red and orange. Double action helical type hinges provide for 180deg. opening and the light weight of the door reduces hinge wear. Neither kicking plates nor other door furniture are necessary. The doors are available for openings up to 7ft 6in high and 7ft 6in wide.

Mancuna Engineering Ltd., Denton, Manchester, Denton 3965.

Readers' Information Service, Ref. G. Date 13/1/60.



G



Old Change House, London EC4, Architect: Theo H. NIKES F.R.I.B.A. Contractors: Bernard Sunley & Sons Ltd

new buildings — new needs

New needs, new architecture, new buildings—and new ranges of Crittall windows. Crittall aluminium windows, designed to match the most forward- and upward-looking architectural concepts and ready to meet the toughest, down-to-earth practical service demands.

Thorough, painstaking researches on an international scale, the application of the most far-reaching advances in design and manufacturing techniques, and a new factory specialising in the production of aluminium windows and equipped with an anodising plant as up-to-the-minute as any in the world. All this, added to Crittall's already long experience in making metal windows of all kinds, will help to make the larger, higher, buildings of the future more efficient to live in and work in, less costly to maintain.

and WINDOWS by CRITTALL

Old Change House, for the Bernard Sunley Investment Trust Ltd., is fitted with Crittall 'Continental' Windows with 'Solomatic' Venetian Blinds throughout. Write for fully descriptive leaflet to:

THE CRITTALL MFG. CO. LTD.
BRAintree · ESSEX

Branches and Depots
throughout the country

*Everything
including
the
kitchen
sink*



**CRITTALL
AQUAFONT
GROUP LIMITED**

CA

Trojan Works,
35 Kentish Town Road,
London. N.W.1.
GULLiver 6171.

And it is a well-constructed sink unit of stainless steel. In fact all the Crittall Aquafont heavy and light duty catering equipment is well constructed. It is also practical, reliable and economical; therefore worth having. We would like you to come and see it at the forthcoming Catering Exhibition. Apart from supplying sound equipment, CA also supply sound ideas. Good, workable ideas backed by experience and commonsense. At the Exhibition you will meet the men responsible for thinking up these ideas. A few words with them may save more than a few pounds during the coming years. Come along and see them and hear what they have to say. You won't be bored.



KYLJACK REGD.

**ANTI-FROST SOLUTION
FOR CONCRETE
AND MORTAR MIXES**

Gives complete protection to these mixes against the effects of severe frost. It cannot harm metal reinforcing bars.

Specify KYLJACK

All Drums NOW free of charge

Details from

British Bitumen Emulsions Ltd.

DUNDEE ROAD, TRADING ESTATE, SLOUGH, BUCKS. Tel: SLOUGH 21261-6

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20 MAUKINFALD ROAD, GLASGOW, E.2 Tel: BRIDGETON 2791

91a LOWER ASHLEY ROAD, BRISTOL 2 Tel: BRISTOL 51380

CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to January 13, 1960.

(COPYRIGHT)

ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:

The new buildings of ordinary construction not exceeding

5,000 cubic feet £3

Over 5,000 cubic feet for every extra 1,000 cubic feet up

to 1,000 cubic feet add 4/-

Buildings over four storeys add 3d per 1,000 cubic feet

extra for each storey up to eight 3d

ALTERATIONS AND ADDITIONS

Up to £100 cost £3

Over £100 up to £1,000.— Per £100 cost 15/-

Over £1,000 up to £5,000.— Ditto 5/-

Over £5,000 3/-

Public buildings add 50%

Steel framed or R.C. buildings.—See L.C.C. (General Powers Act

1955) also fees in respect of means of escape in case of fire.

Allowance to cover National Insurances, Holidays with

Pay and Public Holidays, Welfare, Third Party Risk,

Travelling and Guaranteed Week is made in the rates

attached to the items.

Allow for Fire Insurance 1/6%

Allow for Water for use on the works and apparatus .. 5/-

Allow for hoarding, or similar licences in City of London say £10

Do. under Borough Councils per each month .. say 2/6

Allow for Office, Fire, Attendance on C. of W., etc. p. week say 30/-

ADMINISTRATION AND CONTROL

Percentage costs on normal contracts in accordance with Builders

Turnover per Annum see appropriate column hereunder:

Place	Turnover in Thousands			
	25	50	75	100
At depot	13%	9%	7%	6%
On job	6%	5 1/4%	4 1/4%	4%

SPOT ITEMS AND DEMOLITION, ETC.

	Per ft run
Hoarding erected and removed	20/-
Planked gangway with handrail, etc. do.	10/-
Proper gantry do.	78/-
Sleeper roadways	16/6
Needling, strutting and shoring including all labours	Per ft cube
and use and waste in erection and removal	20/-

ALTERATION-DEMOLITION—	1 1/4 2			Per
	Brick	Brick	Brick	yard
Cutting out cement concrete or	(Per ft super)			cube
brickwork in small quantities ..	1/3	2/6	3/7	
Do. if either in very small quantities				
or reinforced	2/2	4/1	6/-	95/-
Debris into baskets and removed				
from inside to outside of bldg. ..	3 1/4d	7d	9d	14/-

SCAFFOLDING (Avg. 45ft high)		Period		
Per yard superficial		1 month	3 months	5 months
Putlog type—4ft 6in lift ..	8/-	10/6	13/6	
Do. —6ft 0in do. ..	5/6	8/-	10/6	
Independent type—4ft 6in lift	10/6	14/6	19/-	
Do. —6ft 0in do. ..	7/6	10/6	13/-	

EXCAVATION	Common Loamy Gravel Rock or			
	Soil	Clay	or Clay	similar
Per Yard Cube By hand ..	7/-	8/4	9/9	64/3
Reducing levels				
Surface trench not exceed-				
ing 5ft deep	14/1	16/10	22/5	79/10
Do. from 5ft to 10ft ..	25/9	28/11	34/7	87/2
Do. from 10ft to 15ft ..	29/3	34/10	40/11	95/4
Fill in and ram	5/9	6/4	6/4	6/2
Barrowing 25yd	3/3	3/7	3/7	4/2
Load vehicles and tip 8				
miles away	17/9	17/9	18/9	19/7

PLANK AND STRUT	To 5ft 5 to 10ft 10 to 15ft		
	deep	deep	deep
To trenches, in normal ground ..	7d	8 1/4d	10d
Per Ft Super			

CONCRETE 1½in Ballast Aggregate		Per yard cub
1 : 3 : 6 Cement concrete in foundations	..	80/-
Do. around grillages	..	83/-

REINFORCED CONCRETE

1 : 2 : 4—3in concrete, worked around reinforcement, between

formwork in the following (at various levels):—Per cubic yard

Foundations and surface beds 89/9

Walls, 12in thick or more 96/-

Sectional	Lintols and	Columns and	Braces and	
inches	beams	casings	projections	
Up to 36 ..	4/7	5/2	5/4	Per cubic ft
36 to 72 ..	4/8	5/-	5/2	do.
72 to 144 ..	4/5	4/11	5/1	do.
over 144 ..	4/3	4/10	5/-	do.
Walls 6in thick ..				18/- Per super yd
Do. 9in thick ..				29/1 do.
Suspended floors average 6in thick ..				19/8 do.

REINFORCING RODS (round) bent and placed. (Ex Mills)—				
Per cwt	1/2in	3/4in	1in	1 1/2in
In floors and beams ..	92/-	80/-	75/9	67/6
In walls ..	98/-	85/-	79/9	70/6
In columns ..	105/6	90/3	81/-	73/9

FORMWORK and Supports (4 times use)—			
Floor soffits	Beams	Walls	Columns
20/3 per yard	3/-	2/8	2/8 per super ft

BRICKWORK

BRICKWORK per YARD superficial reduced to ONE BRICK

in thickness (scaffold to add)— In 1 : 3 cement mortar

Flettons or other similar at 118/- per 1,000 42/-

Mild Stocks or do., at 174/- per 1,000 57/9

Second Stocks or do., at 329/6 per 1,000 66/-

Southwater engineering or similar bricks, at 400/6

per 1,000 78/-

Blue Staffordshire wire cut at 542/6 per 1,000 94/3

Deduct if 1 : 1 : 6 Cement-Lime mortar is used in

lieu of 1 : 3 Portland Cement mortar 2d

Add if brickwork commences above ground level 4/9

Do. if in backing to masonry including cutting and

waste for bonding 3/10

Do. if circular-on-plan 9/-

Do. if in underpinning 9/-

BRICKWORK IN THICKNESS NOT REDUCED—

Per yard superficial	Brick on edge	Half-Brick walls	1 Brick finished fair both sides	1 1/2in Hollow with 2in cavity and G.I. TIES
In Flettons or similar	18/3	23/4	43/1	49/3
In second stocks or do.	31/-	41/-	73/-	72/-

Add: for pointing as work proceeds, per side	1/9	1/11	1/9	1/9
Thickness to old walls, including cutting, toothing and bonding to same an average				
total thickness of 1/2 brick ..	57/-	72/-		Per yd super do.
Do. all as last but an average				
total thickness of 1 1/4 bricks ..	78/-	102/6		

WALLS BUILT IN SUPERIOR BRICKS—

In 1 : 3 Cement mortar, fair faced and pointed on both sides as

the work proceeds:— Half-Brick One Brick

In first quality Stocks at 355/6 44/- 73/-

In red facings at 330/- 38/6 67/9

In blue pressed facings at 604/- 60/- 104/9

Per yd super do.

GENERAL AND SUNDRY

Cut tooth and bond new brickwork to old 5/9 per ft

Damp proof course, double slate, horizontal 4/9 super

Do., as last, but vertical 5/9 do.

Do., bitumen, Hessian base, horizontal 1/- do.

Frames, bed and point in cement mortar, one side 4 1/4d per ft run

Window board of 6in by 6in by 3/4in rounded on edge

quarry tiles, bedded, pointed, cut and fitted 4/3 do.

Terra-cotta air bricks built in and 9in by 6in 9in by 9in

pointed, including flue 6/6 11/6 each

Chimney pots, plain red, set and 1ft high 2ft high

flaunched in cement mortar 17/- 24/- each

Metal windows, assembled, Up to 5ft 5ft to 10ft

hoisted and fixed, lugs cut and super super

pinned and frames bedded and pointed one side in cement

mortar 15/2 18/9 each

10ft to 20ft 28/5 47/- each

super super

Leaving holes through walls for Small pipes Large pipes

pipes and afterwards making 3d per in 6d per in

good in depth in depth

Cutting do., and afterwards do. .. 11d do. 2/- do.

Cut mortices in brickwork or concrete for bolts 1/3 per in

or dowels and run in with cement grout in depth, each

Holdfasts of stout iron hoop bent, holed and

screwed to frame and built in 1/7 each

MEASURED RATES—Continued**BRICKWORK—Continued**
FACING—

Extra only over common brickwork (118/- per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Flettons (150/-)	..	..	4/2 per yd super
White (220/-)	..	..	9/9 do.
First Stocks (355/-)	..	..	19/8 do.
Reds (350/-)	..	..	19/3 do.
Blue pressed (604/-)	..	..	38/3 do.

If built in English bond, Add 12½% to above.

If do., half-brick stretcher bond, Less 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/3	8/5
In first quality Stocks	8/-	12/-
In red facings	7/5	11/11

Plumbing angles	..	..	2d per ft run
Fair cutting	..	..	1/- do.
Fair rake cutting	..	..	1/7 do.
Fair circular cutting	..	..	1/7 do.
Fair squint or birdsmouth	..	..	1/11 do.

ARCHES

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4in soffits and pointing	..	..	ft run
Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints	..	..	ft super

PARTITIONS

	(75 yards)	2in	2½in	3in
Concrete slab partitions in cement mortar	..	11/5	13/8	14/8
Hollow clay do.	..	13/5	15/6	18/-
Cutting and bonding at angles, inter-sections and ends

PAVING

	1in	1½in	1¾in
Grano trowelled gauge 5 : 2	8/6	9/6	10/8 yd super
1 by 5in skirting, square top and cove bottom	2/10 ft run
1in by 6in red quarry tile paving	32/- yd super
1in by 6in do. skirting	1/11 ft run
Jointless flooring, 1in thick	20/- yd super

ASPHALT (normal conditions for 200 yds super and upwards)

1in pitch mastic floor in one coat on felt underlay on prepared concrete base	1450/48	1375/47	..
Per yd super	..	..	..
Unit	..	..	..
1in in two thicknesses on felt underlay on prepared concrete base	..	..	..
Do. in narrow widths	..	..	..
1in skirting 6in high, angle fillet at bottom splayed and turned in at top	..	..	..
External angles	..	..	..
Internal do.	..	..	..
Tanking or Damp Course	..	..	..
Vertical in two thicknesses	..	..	..
1in horizontal do.	..	..	..
Vertical in three thicknesses	..	..	..
1½in horizontal do.	..	..	..
Labour rounded external angle	..	..	..
Do. internal angle fillet	..	..	..
Do. double do.	..	..	..
Collars to small pipes	..	..	..
Do. to large pipes	..	..	..

DRAINAGE

Per lineal yd	1ft in depth	..	5/10
Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus.	2 do.	..	9/11
In ordinary ground—moderately firm.	3 do.	..	22/9
(By hand)	4 do.	..	29/7
	5 do.	..	36/6
	6 do.	..	54/11
	7 do.	..	67/6
	8 do.	..	80/-
	9 do.	..	92/6
	10 do.	..	104/11
	11 do.	..	128/11
	12 do.	..	144/11

Portland cement (1 : 6)	Per yd run	..	..
concrete bed under drain 4in	6in	9in	..
pipes and benching up on 18in wide	20in wide	23in wide	..
both sides—6in thick	8/6	10/-	12/3

SALT GLAZED SANITARY DRAIN PIPES

and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	4in	6in	9in
"Best"	2ton or more	3/2	4/9	7/10
	50 pieces and over	3/6	5/5	8/9
	under 50 pieces	3/7	5/6	9/1
"Best Tested"	2ton or more	3/11	6/1	9/7
	50 pieces and over	4/4	6/6	10/7
	under 50 pieces	4/5	6/8	11/3
"British Standard"	2ton or more	3/5	5/1	8/4
	50 pieces and over	3/10	5/9	9/4
	under 50 pieces	3/11	5/10	9/8
"British Standard Tested"	2ton or more	4/-	6/1	10/1
	50 pieces and over	4/7	7/-	11/6
	under 50 pieces	4/8	7/1	11/11
Extra for bends "Best"	Contained in 2ton lots	4/2	6/3	16/6
Extra for junction "Best"	4in on 4in—6in on 6in—9in on 9in	do.	6/6	9/9 27/-

IRON DRAIN PIPES—

Heavy cast iron socketed and laying and jointing in molten lead—	Per ft run	..	..
In main runs	4in	6in	..
In branches	14/5	20/2	..
	16/6	23/4	..
Extra over last for bends and extra joint	..	..	..
Do. on do. for junctions and extra joint	..	..	..
Cast-iron gully with 10½in inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete	..	..	..
Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed	183/-	..	..
	85/9	143/6	..

MANHOLE SUNDRIES—

Salt glazed straight half-round main channels	4in	6in	..
Do. curved	..	..	..
Do. three-quarter section splayed channel bends (Barrons or similar)	..	..	..
Heavy manhole steps galvanized	..	..	..
Fix only manhole covers	..	..	..
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	..	..	..

ROOFER**CORRUGATED ASBESTOS SHEETS**

P.C. 8/3½ per super yd including side and end laps and fixing to wood	162/6 per square	..	..
Eaves filler pieces	2/6 ft run	..	..
Adjustable ridge	4/9 do.	..	..
Barge boards	3/4 do.	..	..
Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)	263/- per square	..	..
Extra over last for top edge or abutment cutting	1/4 ft run	..	..
Do. for double course at eaves	2/5 do.	..	..
Do. for verges, undercloak, bed and point	3/9 do.	..	..
Do. Valley tiles including cutting and waste on both sides	11/3 do.	..	..
Do. Bonnet hips and do. bed and point	11/9 do.	..	..
Half-round ridge and bed and point	3/6 do.	..	..
Fixing soakers	1/8 dozen	..	..

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit

Do. but in one layer only	..	..	..
	12/6 yd	9/- super	..
WELSH SLATING	16" + 10" 18" + 10" 20" + 10"	..	..
3in lap, 2 zinc nails to each slate	341/-	356/-	414/-

Additional labours

At tops, verges and abutments—straight	1/9	1/10	2/2
Do. —raking	2/7	2/9	3/1
At hips and valleys (each side)	2/7	2/9	3/1
At eaves, double course	3/6	3/8	4/2
Do. to falls	5/3	5/4	6/3

The cheapest central heating there is - SOLID FUEL



Cheapest Running Costs. A new generation of house hunters is insisting on central heating. They regard it as just as much of an essential as the water supply. It's as well then that *solid fuel* central heating has such rockbottom running costs. Look at the figures on the right: *no other fuel* can compare for cheapness with solid fuel.

Low Capital Costs. It's not an expensive business installing a *solid fuel* central heating system. In fact, the recently developed small-pipe system, so perfect for smaller or medium-sized houses or bungalows, is of such low capital cost that central heating can now be put within the reach of a much larger section of the public than ever before. Special 5-year credit facilities are now available.

For Architects. "Central Heating for Houses." This 120-page survey of solid fuel central heating outlines the various systems available, from the open-fire-and-back-boiler to the latest small-pipe system. Copies 2/6 each. Write to the Coal Utilisation Council, 3 Upper Belgrave Street, London, S.W.1, for this booklet or any of the following publications:

List of Approved Domestic Solid Fuel Appliances, Warmer Homes with Solid Fuel, Fuel Stores for Houses and Flats, Building for Warmth—all free; and for 1/6—Correct Fixing of Domestic Solid Fuel Appliances.



Compare the Costs! These are typical weekly costs, averaged over a year, for central heating and for hot water, summer and winter, in a three-bedroom house or bungalow. If you would like the data on which these figures are based, write to the Coal Utilisation Council, 3 Upper Belgrave Street, London, S.W.1.

CUC			
6 or 7 radiators and hot water ▼			
2 or 3 radiators and hot water ▼			
COKE	£9 per ton	9/9d	15/-
SMALL ANTHRACITE	£12 per ton	—	14/1d
GAS	1/4d therm plus, say, 2/6d week standing charge	16/1d	23/6d
ELECTRICITY	1d unit (No standing charge included)	18/2d	29/10d
OIL	1/5½d gallon	12/10d	22/8d



THIS
MANUAL
—
WILL
HELP
SOLVE
YOUR
PROBLEMS



Stonhard Company Ltd

BERGER HOUSE, BERKELEY SQUARE, LONDON, W.1.
Telephone: MAYfair 4641.

BATLEY 'UP & OVER' DOORS AND DOOR GEAR . . .



'UP & OVER' DOOR . . .

Is inexpensive, yet simple and completely reliable in operation. Can be quickly fitted to any width or height of opening. Available in ribbed Aluminium Alloy (£20) or exterior grade Mahogany Ply (£19).



SUPARISE 'UP & OVER' DOOR GEAR . . .

Designed for easily converting existing hinged doors to 'Up and Over' doors. Or available for new installations with choice of Aluminium Alloy or selected timber doors. Price of door gear only—£11 10s.

Attractive deferred terms — Extensive free delivery area

Brochure from:

ERNEST BATLEY LTD. 96d Colledge Road, Holbrooks, Coventry. Telephone: 89245

MEASURED RATES—continued

FLOORS AND FLATS

Hollow tile *in situ* or pre-cast units hoisted, bedded and fixed—

Per yd super	Superimposed load in lb per ft super		Span	
	50	100	12ft	16ft
	44/9	52/9
	47/-	59/-
	53/9	67/3

20lb has been allowed to cover dead load in surface, finish.
Fair edge to slabs 9d per ft run
Splay cutting and waste 1/9 do.

CARPENTER AND JOINER

SOFTWOOD CARCASSING—

Labour, materials, waste nails, hoisting and fixing	Plates	Joists	Rafters	Trusses
..	19/2	20/8	22/4	25/6

FLOORING—	Per square—	1/2in	1in	1 1/2in
Rough boarding	144/-	171/-	203/-
Softwood batten flooring, straight joints, splayed headings	146/6	167/6	206/-
Do. grooved and tongued	167/6	189/6	244/-

SKIRTING—	Per ft superficial—	1/2in	1in	1 1/2in
Wrot softwood moulded skirting with grounds and backings plugged ..	..	4/-	4/8	5/3
Mitres to do.	3d per sectional in.	..	..	..
Fitted ends	2d do.	..	..	..

SASHES, fanlights, casements, borrowed lights, etc.—

Per ft super—	Without bars		With bars (2ft sup. in each square)	
	2in	3in	2in	3in
2in softwood rebated, moulded and fixed	3/6	..	6/5
Add if fitted with beads	6d	..	1/6
Add if hanging on butts	3/- each	..	..

WINDOWS, hung on lines—

Softwood casement frames, 1in inner and outer linings, 1 1/2in pulley stiles, 2in sashes, oak sill ..	Overall size of frames—			
	Per ft super	6ft	21ft	32ft
..	..	21/6	12/-	9/-
Windows as described	7/-
Add if sashes in squares, about 2ft super in each	1/8	2/2
Extra for hanging sashes with lines, weights and axle pulleys	38/-	66/-	77/-

FINISHINGS TO OPENINGS—

Softwood linings, tongued at angles and tongued to frame including grounds and backings	Per ft super—			
	1/2in	1in	1 1/2in	1 3/4in
..	4/8	5/3	5/10	6/4
Add if crosstongued	8d	8d	8d	8d
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers .. .. .	..	3/10	4/4	5/-
Add for ends to last notched, returned and rounded .. .. .	..	1/1	1/2	1/3

Per ft run—	Sectional area in in—					
	1	2	3	4	5	6
Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	4 1/2d	7d	9 1/2d	1/-	1/3	1/5
Add if in short lengths	2d	2d	2 1/2d	2 1/2d	3d	3d
.. if plugged to brickwork	6d	6d	6d	6d	6d	6d
.. if framed as in legs and bearers	3d	3d	4d	4d	6d	6d
.. if rebated or grooved or beaded	2d	2d	2d	2d	2d	2d
.. if chamfered or rounded edges .. .. .	..	..	..	3d	..	..
.. if moulded in architraves, capping, etc. .. .. .	..	..	..	6d	..	..

DOOR FRAMES—

Per sectional in—	6in	8in	10in	12in	13 1/2in
Softwood, wrot, reb. & rdd. ..	2/3	2/8	3/2	3/6	3/10

DOORS—Per ft super

2in Softwood square	Number of panels—					
	1	2	3	4	5	6
framed and flat panels, both sides, on butts	6/-	6/10	7/5	8/-	8/4	8/10
1 1/2in do.	5/4	6/2	6/7	7/2	7/7	8/1
Add for each side moulded	3d	4d	5d	6d	7d	8d
Add B.S. flush panelled 1/6	1/6	1/6	1/6 1/2	1/7	1/8	1/8

In shelves, table tops, wrot and fixed Do. in divisions and ends framed ..	Per ft super—			
	1/2in	1in	1 1/2in	1 3/4in
..	2/5	2/9	3/4	3/9
Add if crosstongued	2/9	3/1	3/8	4/3
Add if buttoned	6d	6d	6d	6d

SUNDRIES—Per ft run—

Glazing, beads mitred around and fixed with beads	In short lengths		In long lengths		Add for cups and screws
	2in	3in	4in	5in	
..	6d	4d	2d	..	..
Rounded heel or hollow .. ..	..	4d	..	..	..
Tongued and grooved angle ..	..	6d	..	..	..
Glue blocking .. .. .	..	..	6d	..	..
Mitres	3d	..	per sectional in	..	..
Fitted ends	2d	..	do.	..	..

STAIRCASE—

1 1/2in Softwood treads with moulded nosings 1in risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	Per ft super	
	2in	3in
Do. but in winders	6/6	8/-
1 1/2in crosstongued landing on framed carriages ..	6/3	5/6
2in moulded string	14/-	10/-
2in do. ramped	10/-	6/-
Ends framed to newel	6/-	3/6
Tongued heading joints .. ..	..	..
Ends of treads and risers housed to string ..	..	..
Extra for curtail ends to steps, glued up and veneered riser and solid blocking .. .. .	..	100/-
Balusters about 2ft 9in long, square and framed each end	1in	1 1/2in
3 1/2in by 3 1/2in square newel, framed ..	2/6	3/1
African mahogany moulded 3in by 2in hand- rail. (Joints below)	4/-	9/3
Do. ramped 18in girth (do.) .. .. .	..	54/-
Do. wreathed do. (do.) .. .. .	..	160/-
Joint or framed ends .. .. .	..	12/-

FIXING ONLY IRONMONGERY

Barrel bolts	To deal		To hardboard	
	2in	3in	2in	3in
..	1/10	2/9	..	..
Flush bolts	5/6	4/10	..	..
Sash fasteners	2/6	3/-	..	..
Rim locks and furniture	4/6	6/-	..	..
Mortice locks and do.	7/6	17/9	..	..
Cupboard locks	2/9	3/5	..	..
Casement fasteners	2/3	2/9	..	..
Do. stays	2/3	2/9	..	..
Grip handles	2/7	3/5	..	..
Spring catches	2/3	2/9	..	..
Cabin hooks	1/10	2/5	..	..
Floor springs including oil	49/-	63/-	..	..
Overhead springs	14/7	20/-	..	..
Springhinges	14/-	19/-	..	..

SMITH AND FOUNDER

Basis framed steel joists and hoist and fix Do. but in compound girders	81/6 per cwt	
	2in	3in
..	91/6	93/6
Do. but in stanchions .. .. .	..	130/6
Trusses .. .. .	..	..
Additional cost per cwt over basic sections for following R.S.J.s	..	..
9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6 1/2in, 20in by 7 1/2in ..	8d per cwt	..
22in by 7in, 1 1/2 cwt 4in by 3in	1/10	..
5in by 3in, 5in by 2 1/2in	2/2 1/2	..
6in by 3in, 24in by 7 1/2in	2/6	..
3in by 3in, 2/9 cwt 4 1/2in by 1 1/2in ..	4/-	..
3in by 1 1/2in	4/4	..
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts ..	174/-	..
Forged straps	132/-	..
Wrot iron balustrade	175/-	..

RAINWATER GOODS—

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork ..	Per ft lineal		
	2in	3in	4in
..	4/5	4/10	6/2
Extra for shoes	5/7	7/2	10/3
Do. junctions	8/5	10/9	15/7
Do. bends	6/7	8/6	10/10

RAINWATER GUTTERS

Half round CI gutters jointed in red lead and bolted and fixed on iron brackets ..	Per ft run—		
	4in	5in	6in
..	3/11	4/8	5/9
Ogee do. All as last	4/4	5/-	6/3
Extra for stop ends	3/2	3/10	4/-
Do. angles or outlets	5/6	7/-	8/4

MEASURED RATES—continued

PLUMBER

EXTERNAL—		Soakers		Flats		Flashings	
4lb Milled Sheet lead per cwt		147/-		188/-		200/-	
LEAD PIPES: running joints, etc.							
Per ft run		1in	1in	1in	1in	1in	2in
Main	{ Fixed with hooks	4/5	6/0	8/3	10/5	13/5	17/11
Service		3/11	5/3	7/-	8/7	10/10	14/2
Waste		2/9	3/10	5/-	7/4	7/11	10/1
Bends	each	—	—	—	1/9	3/-	8/-
Solder joints	do.	9/8	11/8	13/5	13/8	18/2	23/8
Union and joints	do.	14/2	17/1	21/4	27/2	—	—
Stop valve and do.	do.	27/10	37/10	52/-	82/6	—	—
Bib valve and do.	do.	19/8	27/-	—	—	—	—
Ball valve and do.	do.	26/9	36/9	52/6	80/6	—	—
Sleeve and do.	do.	—	—	—	—	21/6	29/7

COPPER TUBES

	1in	1in	1in	1in	1in	2in
Tubes per ft run	3/1	3/11	5/-	5/9	7/-	9/11
Couplings: straight	—	—	—	—	—	—
each	3/-	3/6	5/-	6/10	11/6	15/10
Do. Elbows each	5/4	6/3	8/4	12/2	18/6	35/-
Do. Tees do.	8/7	9/11	13/3	19/-	28/7	39/9
Overflow bends	9/2	11/8	16/5	—	—	—
Stop cocks do.	22/-	31/6	50/-	77/-	97/-	153/-

BLACK TUBING (Heavy)	1in	1in	1in	1in	1in	2in
fixed with pipe brackets	—	—	—	—	—	—
Tubes, per ft run	2/7	3/-	3/7	4/6	5/-	6/11
Bends and fix, each	5/-	5/11	8/-	10/6	12/2	18/6
Tees and do.	5/5	6/9	8/-	10/2	12/5	18/2
Fire bends	2/2	2/9	3/1	3/4	4/5	8/-

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance	2in	4in
pieces and molten lead joints	5/9	8/4 ft run
Extra only for bends and joint	14/9	23/8 each
Do. junctions and joints	16/4	29/9 do.
Do. cleaning doors	16/-	17/6 do.
Domical wire guards	2/6	2/9 do.

PLASTERER—	1in	Render and set	yd super
Lime and hair	1in	Do. float and set	7/3
Do.	1in	Do. float and set	10/6
Sirapite	1in	Skimming coat	4/-
Do.	1in	Render and set	8/2
Do.	1in	Render, float and set	10/2
Portland	1in	Backing coat	4/10
Do.	1in	Plain face	8/3
Do.	1in	Floor screed	5/-
Keenes	1in	Skimming coat	5/3
Dubbing	1in	Thick or less	3/-
Metal Lathing	1in	mesh by 24 Gauge	7/-
6in by 6in by 1in Earthenware Plain Glazed Tiles, in fair quantity white, and setting (on prepared screed)	—	—	45/-
Rounded edge. Extra over last	—	—	6d per ft run
Angles in do.	—	—	6d each
Cutting and fitting. Around pipes or clips	—	—	1/6 do.
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.	—	—	—
Do. 6in to 12in do. Add 40 per cent to plain surface.	—	—	—
Sundry labours per ft lineal:—	—	—	—
Quirk 3d. Arris 4d. Fair edge 3d. Rounded edge 5d.	—	—	—
Flush bead 1/9.	—	—	—
Mouldings—6d per in girth.	—	—	—
Joining new plastering to old 4d.	—	—	—

POLISHING	Ft super	6" Girth
NEW WORK—	—	—
Staining, bodying-in and French Polish	3/-	2/-
Staining and wax polishing on hardwood	1/6	1/-
OLD WORK—	—	—
Cleaning down old work and repolish	1/4	—
Stripping, preparing and repolishing	3/4	2/3

INTERNAL PAINTING

With white lead base in common colours, with brushes.	—	—	—	—
Knot stop and prime	—	—	—	—
ON WOOD—	—	—	—	—
General surfaces	2/9	5/7	8/-	2/4 yd super

Running lengths not exceeding 3in wide	4d	8d	1/-	3d	yd run
Do. 3in to 6in wide	5d	11d	1/4	4d	do.
Do. 6in to 9in wide	9d	1/6	2/1	7d	do.
Do. 9in to 12in wide	11d	1/11	2/7	9d	do.
Sash square each side	5/5	10/3	14/11	4/4	per do.
Do. in large squares	8/3	15/-	21/-	6/7	do.
Opening edges	7d	1/2	1/9	7d	each

Casement frames each side	6d	1/-	1/4	5d	yd run
Mullions or transoms do.	8d	1/5	2/-	7d	do.

ON PLASTER—	One coat	Two coats	Three coats	per yd super
Paint on surfaces	3/1	5/10	8/3	—
Do. on mouldings	3/5	6/5	9/2	—
Do. on enrichment	6/2	11/8	16/6	—

ON STEEL	2/5	4/7	6/10	do.
Paint on structural steel	2/5	4/7	6/10	do.
Do. on roof trusses	2/8	5/1	7/8	do.
Do. on metal windows measured over all on both sides, divided into squares	3/5	5/9	8/7	do.
Do. divided into large squares	2/10	5/-	6/9	do.
Do. divided into extra large squares	2/5	4/2	5/10	do.
Do. on opening edges	10d	1/6	2/-	each
Do. on rain water pipe	10d	1/6	2/2	yd run
Do. on do. gutter	1/3	2/8	3/7	do.
Do. on small pipe	3d	6d	10d	do.

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about 1in), glazing quality, in the following sizes, glazed complete—Per ft super in plates not exceeding 2ft super in each	7/2
Do. 5ft do.	8/3
Do. (unless extra sizes) 45ft do.	9/7
Do. (unless extra sizes) 100ft do.	10/2
Add extra price for glazing with screw beads or clips 5d per ft super.	—
Do. if glazing bedded in washleather or velvet 9d per ft run.	—

SHEET GLASS, glazed, complete, per ft super, in new work: Ordinary quality clear, glazed to wood with putty:—

24oz as described	1/6
26oz do.	1/9
32oz do.	2/2
1/2 figured rolled, glazed to wood with putty	1/9
Do. in standard tints	2/7
No. 4 Fluted, glazed do.	2/8
1/2 in Reeded (narrow, broad, etc.)	3/0
Reedlite do.	2/2
Spotlite do.	2/2
1/2 in Rough cast do.	2/2
1/2 in do. wired do.	2/6
1/2 in Georgian Rough Cast do.	2/6
Add for glazing all as before but to steel to similar work as above, 1d per superficial ft.	—

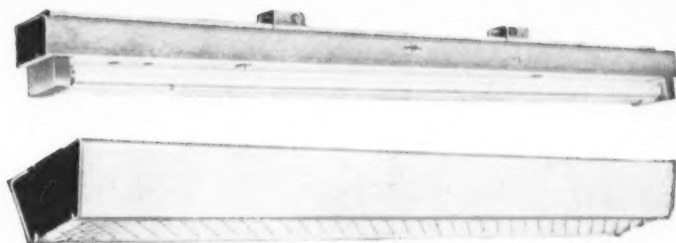
PAINTER AND DECORATOR

DISTEMPERING—In common colours, put on with brushes—ON PREPARED SURFACE

per yd super—	1 coat	2 coats	Add if required
(finish)	(under-coat and finish)	Sealing coat	Stipp-ling
Ordinary distemper on flat surface of plaster	10d	1/6	6d
Washable do. on do. of plaster	1/-	1/10	6d
Add if in margins, narrow widths or panels	30%	30%	20%
Add if on mouldings	50%	50%	45%
Add if on enrichments	160%	160%	115%

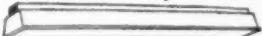
PAPERHANGING


Hanging only—	Per Piece—Lining	Pattern
On walls	7/6	9/-
On stairs	10/3	12/-
On ceilings	9/-	10/6




looking for light fittings that are real all-rounders?

atlas atlantic
flexibility in fluorescent lighting

The varying lighting needs of office, works or showrooms *need not now* involve any extra expense on different fittings,  special installations or complex maintenance. With only the one basic fitting of **atlas atlantic** you can achieve the right light for every department, by a simple interchange of standard units. Create an attractive, *integrated* lighting system through the whole premises, at the same time increase efficiency and lower costs.

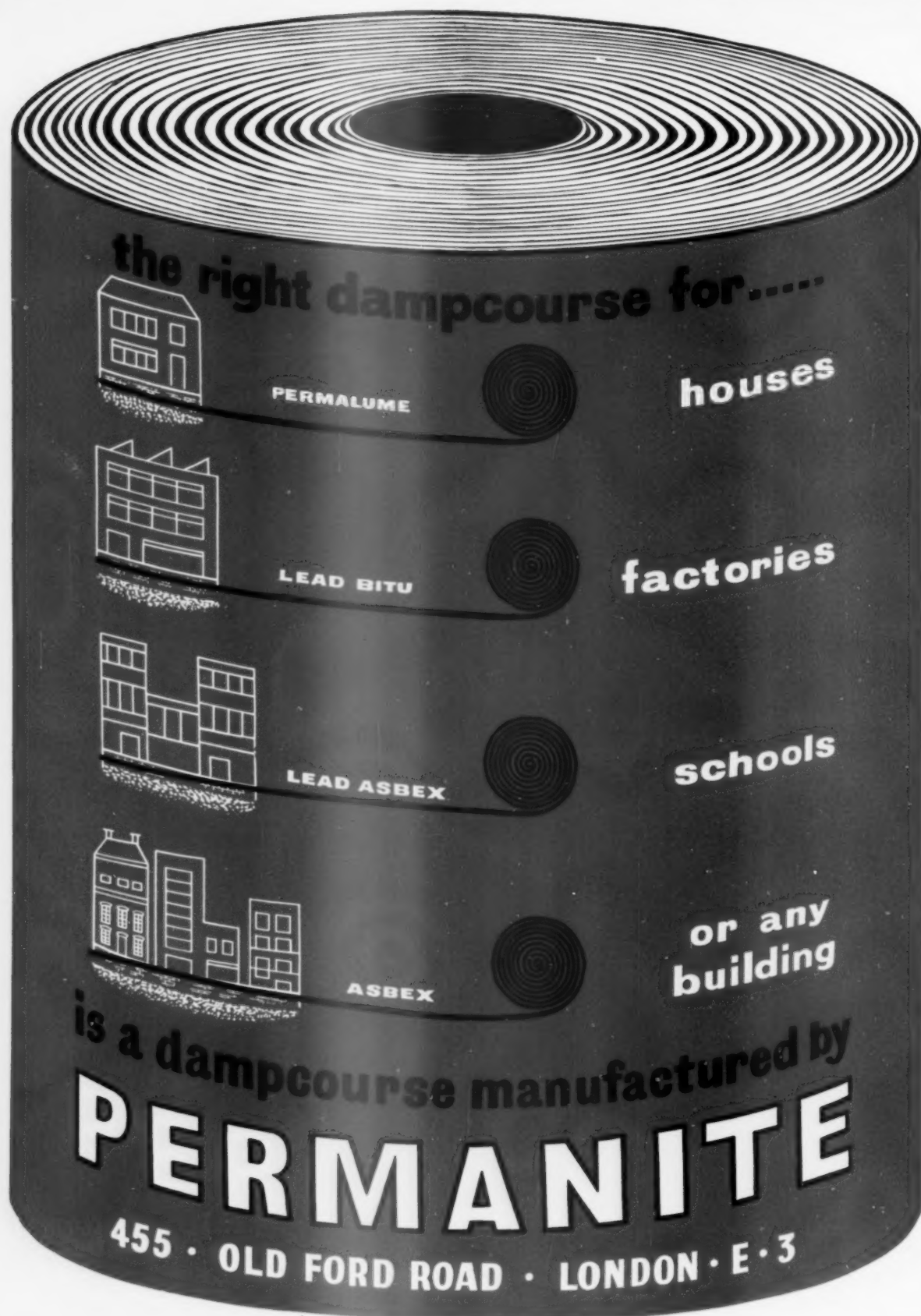
 The flexibility of the **atlas atlantic** range extends even further. Alter the functions of floor space at any time, and you need change only reflectors and diffusers to fit the new lighting demands . . . from a robust, functional fitting for stockrooms, to a superb boardroom fitting with decorative diffuser.

The unique features of the chassis, the quality and appearance of the fittings, the high efficiency of the fluorescent light,  and the very wide range of units bring you a new concept of low-cost lighting.


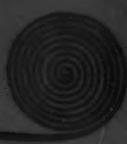
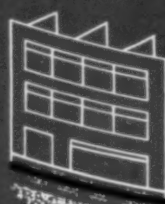
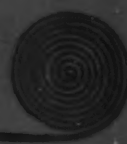
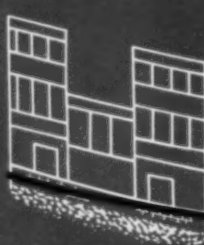
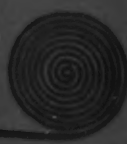

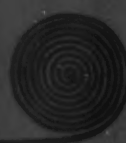
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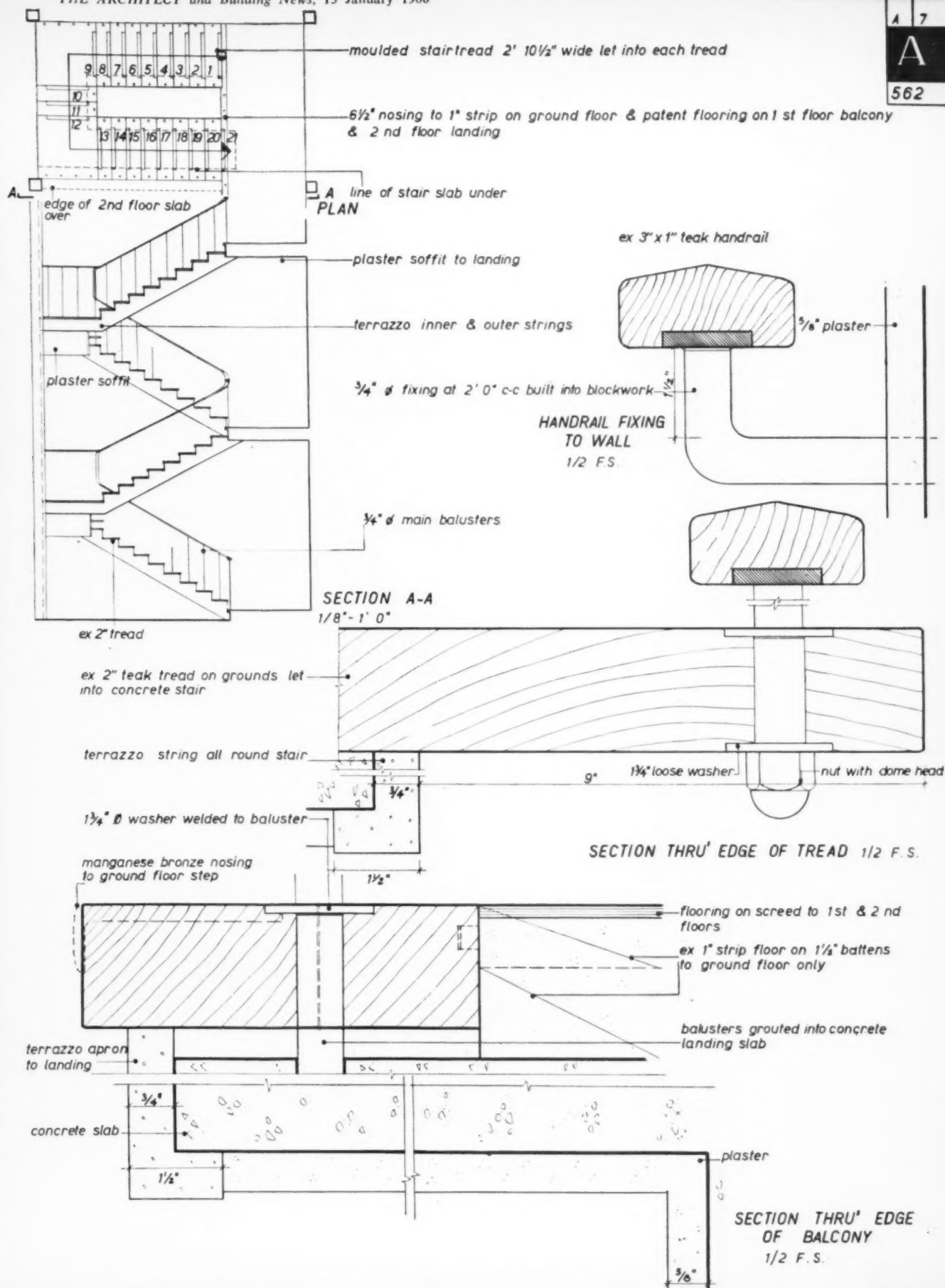
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The main staircase in the Cambridge Instrument Company's new laboratories at Cambridge springs from a step 6in above the general level of the entrance hall, which is finished in hardwood strip in contrast to the white terrazzo elsewhere. Teak treads, 2in thick, are cantilevered 9in from the reinforced concrete carriage, which is also faced with white terrazzo, the soffits being plastered and painted deep French grey. Walls are painted light grey except the side wall, which is lime green, and the balusters are white. The architects are Edward D. Mills and Partners

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High fire resistance with low 'U' values

The combustible content of LYTAG is less than $\frac{1}{2}\%$. It will withstand temperatures of up to $1,000^{\circ}\text{C}$ without damage. At the same time, it provides a 'U' value well below that of ordinary concrete. For example, the 'U' value of a 6" LYTAG structural concrete element would be less than a half that of the same element in dense concrete.

60% Air — 100% efficient

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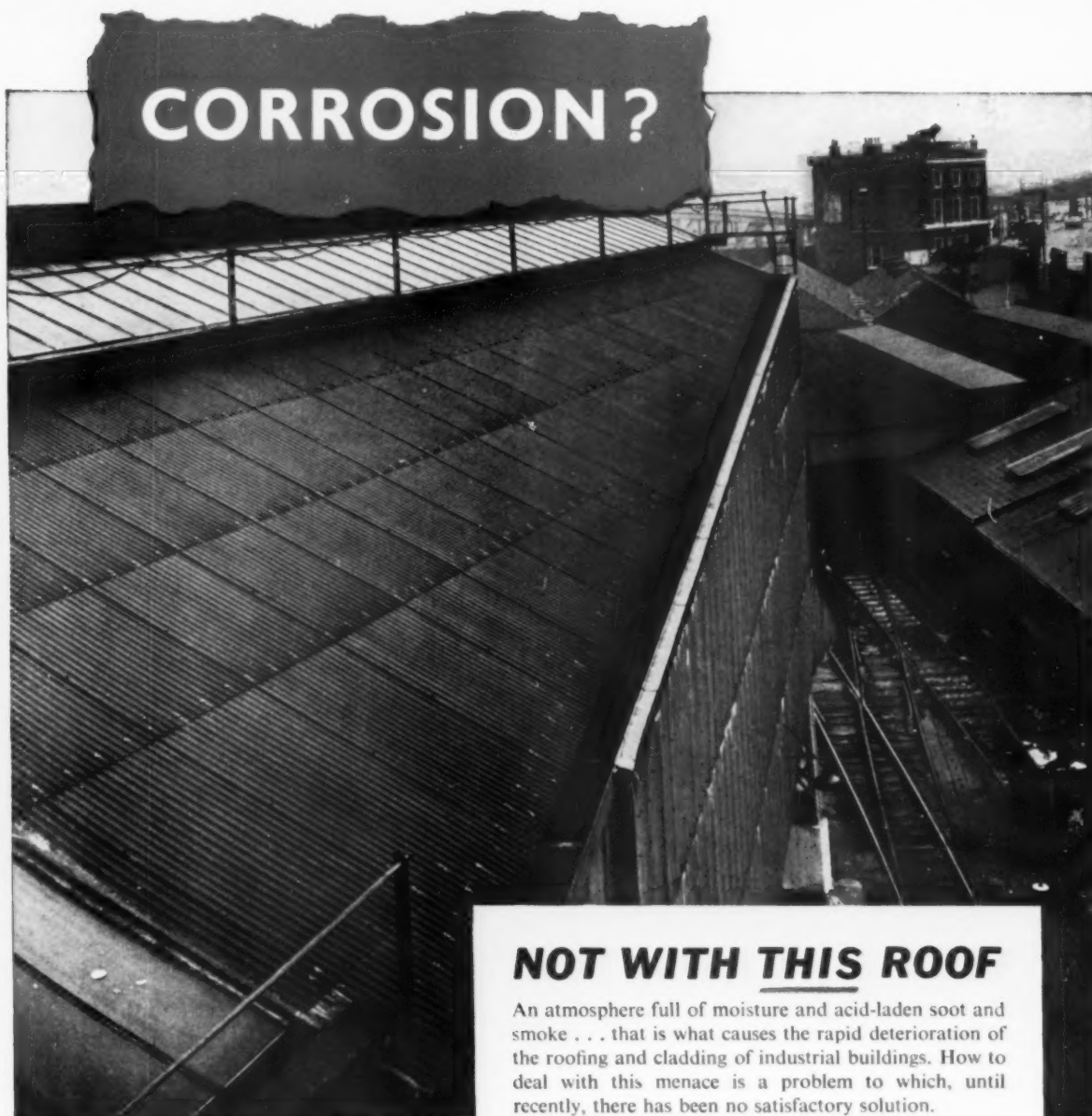
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Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the

CONTRACT • NEWS •

OPEN

BUILDING

ABERCARN U.C. (a) Construction of 152 houses at Trinant housing site, Crumlin. (b) Engineer, Council Offices, Abercarn. (c) 3gn. (e) January 26.

BASINGSTOKE B.C. (a) Erection of aged persons' dwellings comprising ten bungalows and one block of 12 flatlets with warden's accommodation and communal sitting room, St. Peter's Road. (b) Borough Architect, Municipal Buildings. (c) 2gn. (e) February 2.

BATLEY B.C. (a) Erection of 16 lock-up brick garages in two estates. (b) Borough Engineer, West House, Hanover Street. (e) January 18.

BLAYDON U.C. (a) Erection of 30 single-storey aged persons' bungalows at Smailes Farm site, Rowlandsgill. (b) Clerk of the Council, Council Offices, Blaydon-on-Tyne. (e) January 23.

BLETCHLEY U.C. (a) The Council is about to commence a large programme of building and civil engineering work for the reception of population and industry from the Greater London area. Work is likely to comprise the erection of some 1,500 dwellings, shops, factories and other buildings. Tenders will be by invitation from approved list of contractors and will be divided into different categories according to size of contracts, which are expected to range from £10,000 to £500,000. Firms should make firm application for the particular types and classes of work for which they are best suited. (b) J. F. Smithies, Engineer and Surveyor, Council Offices. (d) January 15.

BLYTH B.C. (a) Housing scheme 36. Erection of ten flats and maisonnettes in Coomassie Road. (b) Borough Engineer, Municipal Buildings, Seaforth Street, Blyth, Northumberland. (c) 2gn. (e) February 8.

BURTON-ON-TRENT B.C. (a) Erection of 150 dwellings and 30 garages of traditional construction on Edge Hill housing estate. (b) Borough Architect, Town Hall. (c) 2gn. (e) January 21.

BURY. (a) Internal and external decoration of portion of the Town Hall. (b) Borough Engineer, Town Hall. (e) January 30.

BURY ST. EDMUNDS B.C. (a) Erection of 19 houses in Oliver Road. (b) Borough Engineer and Surveyor, Borough Offices. (c) 2gn. (e) January 18.

CAMBRIDGE C.C. (a) Erection of a science laboratory, drawing office and ancillary works, comprising 2,250 sq ft floor area in permanent construction at Young Street Further Education Centre. (b) City Surveyor, Guildhall. (c) 2gn. (e) February 12.

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.

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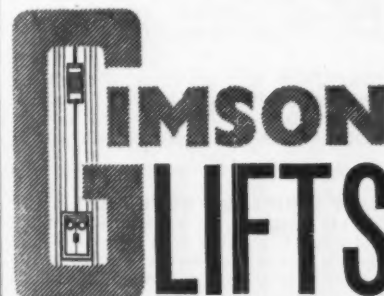
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EIRE—CO. TIPPERARY. (a) Erection and completion of a new church at Silvermines, Co. Tipperary, for the Very Rev. E. Murphy, P.P. (b) John Cuddy, 30 O'Connell Street, Limerick. (c) £25. (e) January 22.

ESHER U.C. (a) Contract 296. Erection of a Civil Defence training and recreational centre, a single-storey building 69ft by 25ft, construction in bricks and block work and covered in concrete pan-tiles. (b) Engineer and Surveyor, Council Offices. (c) 1gn. (e) January 25.

FINCHLEY B.C. (a) Alterations to biology laboratory, Christ's College, Hendon Lane, N.3. (b) Borough Engineer and Surveyor, 294-6 Regent's Park Road, London, N.3. (c) 2gn. (e) January 25.

GELLIGAER U.C. (a) Erection of 112 dwellings of various types, together with road finishing works, etc., in the first phase of Shingrid housing scheme, Trelewis. (b) Engineer and Surveyor, Council Offices, Hengoed, Glam. (c) 5gn. (e) January 28.

GODSTONE (SURREY) R.C. (a) Erection of four blocks all in two storeys comprising 12 housing units at South Nutfield. (b) Engineer and Surveyor, Council Offices, Oxted, Surrey. (c) 2gn. (e) January 20.

HAMPSHIRE C.C. (a) Erection of Alverstoke new county infants' school at Gosport, in traditional construction, comprising six classrooms, assembly hall, kitchen, etc., having floor space of 9,500 sq ft. (b) County Architect, The Castle, Winchester. (c) 2gn. (e) January 25.

HEMSWORTH U.D. (a) Erection of 16 maisonnettes, four houses, 20 bungalows, in pairs on the Southmoor Road, Highfields housing estate. (b) Clerk of the Council, White Hall, Hemsworth. (c) 2gn. (d) January 4. (e) February 1.

HERTS C.C. (a) Buildings and maintenance works, heating and ventilating works, fencing etc. (b) Applications to the County Clerk, County Hall, Hertford, for inclusion in list.

HOVE B.C. (a) Erection of 24 flats in Egmont Road. (b) Borough Surveyor, Town Hall. (c) 3gn. (d) January 16. (e) March 5.

ILFORD B.C. (a) Alterations at Fairlop Secondary Girls' School, Fencepiece Road, Barkingside. (b) Borough Engineer, Town Hall. (c) 2gn. (e) January 26.

ISLE OF ELY C.C. (a) Erection of additional classroom, cloak space, etc. and alterations to the existing school at Little Thetford V.P. (Controlled) School. (b) County Architect, County Hall, March, Cambs. (c) 2gn. (d) January 16. (e) February 13.

LEICESTER C.C. (a) Firm-price basis tender for erection of the first instalment of Thurleston proposed county junior school. (b) County Architect, 123 London Road, for inclusion in a selected list of contractors. (e) February 1.

NANTWICH U.C. (a) Erection of 52 houses on Whitehouse Lane site, to be followed by an additional 130 houses on Marsh Lane site. (b) Engineer and Surveyor, Brookfield House, Nantwich. (d) January 14.

NEWCASTLE-ON-TYNE C.C. (a) Erection of 630 multi-storey flats in one contract. (1) Scotswood Road (Hawes Street)—six 15-storey blocks; (2) Pottery Bank, one 15-storey block. (b) City Architect, 18 Cloth Market, Newcastle, 1. (e) January 21.

NEWCASTLE-ON-TYNE C.C. (a) Rutherford College of Technology—Stage IV: (1) Structural steelwork; (2) Reinforced concrete (cast *in situ*) piles. (b) City Architect, 18 Cloth Market, Newcastle-on-Tyne, 1. (d) Immediately.

NEWCASTLE REGIONAL HOSPITAL BOARD. (a) Extension of linear accelerator building at Newcastle General Hospital. (b) Secretary to the Board, Bentfield Road, Newcastle-on-Tyne, 6. (d) January 15.

NORFOLK E.C. (a) (1) Three classrooms at Costessey Secondary Modern School; (2) Gymnasium block at King's Lynn new girls' school; (3) Erection of Spixworth new three-class primary school; (4) Erection of three classrooms at Swaffham Secondary School; (5) Erection of two staff houses at Upwell Secondary School. (b) Chief Education Officer, County Education Offices, Stracey Road, Norwich. (d) January 13 (today).

NORTHERN COUNTIES TRAINING COLLEGE. (a) Erection of five blocks of three-storied buildings having a floor area of 13,250 sq ft on an 11 acre site fronting Coach Lane, Benton, Newcastle-on-Tyne. Work to begin in April and be completed in two years. (b) Secretary to the Governors, City Education Office, Northumberland Road, Newcastle-on-Tyne. (d) January 21.

NOTTINGHAM C.C. (a) Construction of public toilets at Spondon Street, Sherwood. (b) Engineer and Surveyor, The Guildhall. (c) £2. (e) January 22.

PENZANCE B.C. (a) Erection of 70 flats on St. Clare Street. (b) Borough Surveyor, Municipal Buildings. (d) January 29.

PORTSMOUTH C.C. (a) Erection of six flats in King Street. (b) City Architect, 1 Western Parade, Portsmouth. (c) £1. (d) January 15.

RAWMARSH U.C. (a) Extensions to the public swimming baths consisting of an additional dance hall and refreshment bars. (b) Surveyor, Council Offices, Parkgate, Rotherham. (d) January 25.

READING B.C. (a) Erection of six shops with maisonnettes, 12 garages and two public conveniences, and one block of four one-bedroom flatlets all in traditional construction on Whitley estate. (b) Borough Architect, Town Hall. (c) 2gn. (e) January 15.

RISCA U.C. (a) Erection of five bungalows at the Copper Works, Danycraig. (b) Engineer and Surveyor, Council Offices, Risca. (c) 3gn. (e) February 9.

SELKIRK B.C. (a) Erection of 55 three-apartment permanent houses comprising 16 blocks at Bannerfield site. (b) Town Clerk. (e) January 18.

SEVENOAKS R.C. (a) Erection of one block of four flats at Deanery Road, Crockham Hill. (b) Engineer and Surveyor, Inglewood, Oak Hill Road, Sevenoaks. (c) 2gn. (e) January 26.

SITTINGBOURNE AND MILTON U.C. (a) Extension for ladies' cloakroom and lavatory at the Town Hall. (b) Engineer and Surveyor, "Lydbrook," 89 London Road, Sittingbourne. (c) 3gn. (e) January 19.

SOUTHAMPTON B.C. (a) Erection of a handicraft hall at Hillfield, Bassett Avenue. (b) Borough Architect, Civic Centre. (d) January 2. (e) January 25.

ST. HELENS B.C. (a) Completion of an aged persons' hostel for 60 persons, to be of load-bearing construction and form part of a neighbourhood centre at Parr. (b) Borough Engineer, Town Hall. (c) 2gn. (e) February 2.

TAUNTON B.C. (a) Erection of 22 traditional dwellings with external works on Lane estate. (b) Borough Architect, Flook House, Station Road. (c) 2gn. (e) January 26.

TYRONE C.C. (a) Erection of an intermediate school at Aughnacloy. (b) A. Crawford, Quantity Surveyor, 1 Lombard Street, Belfast. (e) January 19.

VALLEY R.C. (a) Erection of 50 Unity traditional dwellings with roads and sewerage at Tan y Bryn Valley. (b) Clerk, Council Offices, Valley, Holyhead. (c) 3gn.

WALTON AND WEYBRIDGE U.C. (a) Erection of 12 bed-sitting room flats and eight one-bedroom flats in four blocks at Queen's Road (Hersham) site. (b) Engineer and Surveyor, Council Offices, Walton-on-Thames. (e) January 28.

WALTHAMSTOW B.C. (a) Erection of a factory of 4,000 sq ft at Grange Road, E.17. (b) Borough Architect, Engineer and Surveyor, Town Hall, E.17. (c) 2gn. (e) January 22.

WIGAN B.C. (a) Erection of traditional dwellings. 13 type E.1 three-bedroom houses at end of blocks. 21 type E.2 three-bedroom houses in middle and at end of blocks. Eight type F.1 corner blocks comprising two flats. (b) Borough and Water Engineer, Municipal Buildings. (c) 2gn. (e) February 1.

WORCESTERSHIRE C.C. (a) Erection of an old persons' home at Halesowen. (b) County Architect, 14 Castle Street, Worcester. (d) Immediately. (e) February 1.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BATH. (1) Erection of shops and flats for Ravenscroft Properties Ltd. (2) Pump Room Hotel site. (3) Tersons Ltd., Dollis Park, Finchley, London. N.3. (4) £216,000.

BIRMINGHAM C.C. (1) Erection of south wing of the College of Technology, Commerce and Art. (2) Gosta Green. (3) Tersons Ltd., Dollis Park, London. N.3. (4) £433,000.

ESSEX C.C. (1) Extensions to secondary school. (2) Loughton. (3) S. Cronin & Sons Ltd., 142 Warley Hill, Brentwood, Essex. (4) £110,000.

HARLOW DEVELOPMENT CORPORATION. (1) Erection of 242 dwellings. (2) Tye Green area. (3) George Wimpey and Co. Ltd. (4) £300,000.

HARLOW U.C. (1) Construction of an indoor swimming pool. (2) Harlow New Town. (3) Thomas Bates & Son, Ltd., Harold Wood, Romford, Essex. (4) £140,000.

ISLINGTON B.C. (1) Erection of 36 dwellings. (2) Oakley Crescent. (3) Gee, Walker & Slater Ltd., 100 Park Lane, London, W.1. (4) £74,079.

LEEDS. (1) Stage 2 of Leeds Jewish Housing Association estate. (2) Queenshill. (3) N. B. Bell & Co. Ltd., Leeds. (4) £122,930.

LITHERLAND U.C. (1) Erection of 192 dwellings. (3) Sir Robert Lloyd & Co. Ltd., Bromborough, Cheshire. (4) £276,143.

LIVERPOOL C.C. (1) Erection of a health centre with maisonnettes over. (2) Mill Street. (3) R. J. Barton & Sons Ltd., Altcar Road, Formby, Lancs. (4) £94,286. (1) 30 dwellings. (2) Stanhope Street. (3) R. J. Barton & Sons Ltd. (4) £51,381.

LONDON, CITY. (1) Scheme of improvement. (2) Billingsgate Market. (3) C. J. Sims Ltd., 2 Victoria Street, London, S.W.1.

LONDON E. (1) Erection of a multi-storey nurses' home extension. (2) East Mount Street, Stepney, E.1. (3) Sir Robert McAlpine & Sons Ltd., 80 Park Lane, London, W.1.

LONDON, S.W. (1) Rebuilding Chelsea Barracks. (2) Pimlico S.W.1. (3) Gilbert-Ash Ltd., 2 Stanhope Gate, London, W.1. (4) £2,250,000.

LONDON, W.C. (1) Large new hotel. (2) Russell Square and Guildford Street. (3) Mullen & Lumsden Ltd., Eagle Street, London, W.C.1. (4) £1,000,000.

MANCHESTER. (1) Completion of stage 3 of rebuilding of London Road station—to be known as "Piccadilly". (3) William Townson Ltd., Higher Swan Lane, Bolton. (4) £500,000.

NEWCASTLE-ON-TYNE C.C. (1) Stage 4 of the Rutherford College of Technology. (3) John Laing & Son Ltd., Mill Hill, London, S.W.7.

ROMFORD B.C. (1) Two 11-storey blocks of 53 flats. (2) St. Andrew's Road, etc. (3) Wates Ltd., 1258 London Road, S.W.16. (4) £258,462.

SHEFFIELD C.C. (1) Construction of next phase of the wholesale fruit, vegetables and fish market. (2) Darnall. (3) Spooners (Hull) Ltd., Glebe Road, Stoneferry, Hull.

SHEFFIELD REGIONAL HOSPITAL BOARD. (1) Radiotherapy department. (2) St. George's Hospital, Lincoln. (3) C. R. Price Ltd., Barnsley Road, Doncaster.

SUNDERLAND B.C. (1) Erection of 336 houses. (2) Town End Farm estate. (3) L. W. Evans Ltd., Norfolk Street, Sunderland.

SWANSEA B.C. (1) Erection of two buildings. (2) Technical College, Mount Pleasant. (3) John Laing & Son Ltd., Mill Hill, London, N.W.7. (4) £132,239.

WESTON - SUPER - MARE B.C. (1) Housing, flats and maisonnettes. (2) Bournville Estate. (3) John Laing & Son Ltd., Mill Hill, London, N.W.7. (4) £109,432.

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ESHER U.C. (a) Contract 296. Erection of a Civil Defence training and recreational centre, a single-storey building 69ft by 25ft, construction in bricks and block work and covered in concrete pan-tiles. (b) Engineer and Surveyor, Council Offices. (c) 1gn. (e) January 25.

FINCHLEY B.C. (a) Alterations to biology laboratory, Christ's College, Hendon Lane, N.3. (b) Borough Engineer and Surveyor, 294-6 Regent's Park Road, London, N.3. (c) 2gn. (e) January 25.

GELLIGAER U.C. (a) Erection of 112 dwellings of various types, together with road finishing works, etc., in the first phase of Shingrid housing scheme, Trelewis. (b) Engineer and Surveyor, Council Offices, Hengoed, Glam. (c) 5gn. (e) January 28.

GODSTONE (SURREY) R.C. (a) Erection of four blocks all in two storeys comprising 12 housing units at South Nutfield. (b) Engineer and Surveyor, Council Offices, Oxted, Surrey. (c) 2gn. (e) January 20.

HAMPSHIRE C.C. (a) Erection of Alverstoke new county infants' school at Gosport, in traditional construction, comprising six classrooms, assembly hall, kitchen, etc., having floor space of 9,500 sq ft. (b) County Architect, The Castle, Winchester. (c) 2gn. (e) January 25.

HEMSWORTH U.D. (a) Erection of 16 maisonnettes, four houses, 20 bungalows, in pairs on the Southmoor Road, Highfields housing estate. (b) Clerk of the Council, White Hall, Hemsworth. (c) 2gn. (d) January 4. (e) February 1.

HERTS C.C. (a) Buildings and maintenance works, heating and ventilating works, fencing etc. (b) Applications to the County Clerk, County Hall, Hertford, for inclusion in list.

HOVE B.C. (a) Erection of 24 flats in Egmont Road. (b) Borough Surveyor, Town Hall. (c) 3gn. (d) January 16. (e) March 5.

ILFORD B.C. (a) Alterations at Fairlop Secondary Girls' School, Fencepiece Road, Barkingside. (b) Borough Engineer, Town Hall. (c) 2gn. (e) January 26.

ISLE OF ELY C.C. (a) Erection of additional classroom, cloak space, etc. and alterations to the existing school at Little Thetford V.P. (Controlled) School. (b) County Architect, County Hall, March, Cambs. (c) 2gn. (d) January 16. (e) February 13.

LEICESTER C.C. (a) Firm-price basis tender for erection of the first instalment of Thurmaston proposed county junior school. (b) County Architect, 123 London Road, for inclusion in a selected list of contractors. (e) February 1.

NANTWICH U.C. (a) Erection of 52 houses on Whitehouse Lane site, to be followed by an additional 130 houses on Marsh Lane site. (b) Engineer and Surveyor, Brookfield House, Nantwich. (d) January 14.

NEWCASTLE-ON-TYNE C.C. (a) Erection of 630 multi-storey flats in one contract. (1) Scotswood Road (Hawes Street)—six 15-storey blocks; (2) Pottery Bank, one 15-storey block. (b) City Architect, 18 Cloth Market, Newcastle, 1. (e) January 21.

NEWCASTLE-ON-TYNE C.C. (a) Rutherford College of Technology—Stage IV: (1) Structural steelwork; (2) Reinforced concrete (cast *in situ*) piles. (b) City Architect, 18 Cloth Market, Newcastle-on-Tyne, 1. (d) Immediately.

NEWCASTLE REGIONAL HOSPITAL BOARD. (a) Extension of linear accelerator building at Newcastle General Hospital. (b) Secretary to the Board, Bentfield Road, Newcastle-on-Tyne, 6. (d) January 15.

NORFOLK E.C. (a) (1) Three classrooms at Costessey Secondary Modern School; (2) Gymnasium block at King's Lynn new girls' school; (3) Erection of Spixworth new three-class primary school; (4) Erection of three classrooms at Swaffham Secondary School; (5) Erection of two staff houses at Upwell Secondary School. (b) Chief Education Officer, County Education Offices, Stracey Road, Norwich. (d) January 13 (today).

NORTHERN COUNTIES TRAINING COLLEGE. (a) Erection of five blocks of three-storied buildings having a floor area of 13,250 sq ft on an 11 acre site fronting Coach Lane, Benton, Newcastle-on-Tyne. Work to begin in April and be completed in two years. (b) Secretary to the Governors, City Education Office, Northumberland Road, Newcastle-on-Tyne. (d) January 21.

NOTTINGHAM C.C. (a) Construction of public toilets at Spondon Street, Sherwood. (b) Engineer and Surveyor, The Guildhall. (c) £2. (e) January 22.

PENZANCE B.C. (a) Erection of 70 flats on St. Clare Street. (b) Borough Surveyor, Municipal Buildings. (d) January 29.

PORTSMOUTH C.C. (a) Erection of six flats in King Street. (b) City Architect, 1 Western Parade, Portsmouth. (c) £1. (d) January 15.

RAWMARSH U.C. (a) Extensions to the public swimming baths consisting of an additional dance hall and refreshment bars. (b) Surveyor, Council Offices, Parkgate, Rotherham. (d) January 25.

READING B.C. (a) Erection of six shops with maisonnettes, 12 garages and two public conveniences, and one block of four one-bedroom flatlets all in traditional construction on Whitley estate. (b) Borough Architect, Town Hall. (c) 2gn. (e) January 15.

RISCA U.C. (a) Erection of five bungalows at the Copper Works, Danycaig. (b) Engineer and Surveyor, Council Offices, Risca. (c) 3gn. (e) February 9.

SELKIRK B.C. (a) Erection of 55 three-apartment permanent houses comprising 16 blocks at Bannerfield site. (b) Town Clerk. (e) January 18.

SEVENOAKS R.C. (a) Erection of one block of four flats at Deanery Road, Crockham Hill. (b) Engineer and Surveyor, Inglewood, Oak Hill Road, Sevenoaks. (c) 2gn. (e) January 26.

SITTINGBOURNE AND MILTON U.C. (a) Extension for ladies' cloakroom and lavatory at the Town Hall. (b) Engineer and Surveyor, "Lydbrook," 89 London Road, Sittingbourne. (c) 3gn. (e) January 19.

SOUTHAMPTON B.C. (a) Erection of a handicraft hall at Hillfield, Bassett Avenue. (b) Borough Architect, Civic Centre. (d) January 2. (e) January 25.

ST. HELENS B.C. (a) Completion of an aged persons' hostel for 60 persons, to be of load-bearing construction and form part of a neighbourhood centre at Parr. (b) Borough Engineer, Town Hall. (c) 2gn. (e) February 2.

TAUNTON B.C. (a) Erection of 22 traditional dwellings with external works on Lane estate. (b) Borough Architect, Flook House, Station Road. (c) 2gn. (e) January 26.

TYRONE C.C. (a) Erection of an intermediate school at Aughnacloy. (b) A. Crawford, Quantity Surveyor, 1 Lombard Street, Belfast. (e) January 19.

VALLEY R.C. (a) Erection of 50 Unity traditional dwellings with roads and sewerage at Tan y Bryn Valley. (b) Clerk, Council Offices, Valley, Holyhead. (c) 3gn.

WALTON AND WEYBRIDGE U.C. (a) Erection of 12 bed-sitting room flats and eight one-bedroom flats in four blocks at Queen's Road (Hersham) site. (b) Engineer and Surveyor, Council Offices, Walton-on-Thames. (c) January 28.

WALTHAMSTOW B.C. (a) Erection of a factory of 4,000 sq ft at Grange Road, E.17. (b) Borough Architect, Engineer and Surveyor, Town Hall, E.17. (c) 2gn. (e) January 22.

WIGAN B.C. (a) Erection of traditional dwellings. 13 type E.1 three-bedroom houses at end of blocks. 21 type E.2 three-bedroom houses in middle and at end of blocks. Eight type F.1 corner blocks comprising two flats. (b) Borough and Water Engineer, Municipal Buildings. (c) 2gn. (e) February 1.

WORCESTERSHIRE C.C. (a) Erection of an old persons' home at Halesowen. (b) County Architect, 14 Castle Street, Worcester. (d) Immediately. (e) February 1.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BATH. (1) Erection of shops and flats for Ravenscroft Properties Ltd. (2) Pump Room Hotel site. (3) Tersons Ltd., Dollis Park, Finchley, London, N.3. (4) £216,000.

BIRMINGHAM C.C. (1) Erection of south wing of the College of Technology, Commerce and Art. (2) Gosta Green. (3) Tersons Ltd., Dollis Park, London, N.3. (4) £433,000.

ESSEX C.C. (1) Extensions to secondary school. (2) Loughton. (3) S. Cronin & Sons Ltd., 142 Warley Hill, Brentwood, Essex. (4) £110,000.

HARLOW DEVELOPMENT CORPORATION. (1) Erection of 242 dwellings. (2) Tye Green area. (3) George Wimpey and Co. Ltd. (4) £300,000.

HARLOW U.C. (1) Construction of an indoor swimming pool. (2) Harlow New Town. (3) Thomas Bates & Son, Ltd., Harold Wood, Romford, Essex. (4) £140,000.

ISLINGTON B.C. (1) Erection of 36 dwellings. (2) Oakley Crescent. (3) Gee, Walker & Slater Ltd., 100 Park Lane, London, W.1. (4) £74,079.

LEEDS. (1) Stage 2 of Leeds Jewish Housing Association estate. (2) Queenshill. (3) N. B. Bell & Co. Ltd., Leeds. (4) £122,930.

LITHERLAND U.C. (1) Erection of 192 dwellings. (3) Sir Robert Lloyd & Co. Ltd., Bromborough, Cheshire. (4) £276,143.

LIVERPOOL C.C. (1) Erection of a health centre with maisonnettes over. (2) Mill Street. (3) R. J. Barton & Sons Ltd., Altcar Road, Formby, Lancs. (4) £94,286. (1) 30 dwellings. (2) Stanhope Street. (3) R. J. Barton & Sons Ltd. (4) £51,381.

LONDON, CITY. (1) Scheme of improvement. (2) Billingsgate Market. (3) C. J. Sims Ltd., 2 Victoria Street, London, S.W.1.

LONDON E. (1) Erection of a multi-storey nurses' home extension. (2) East Mount Street, Stepney, E.1. (3) Sir Robert McAlpine & Sons Ltd., 80 Park Lane, London, W.1.

LONDON, S.W. (1) Rebuilding Chelsea Barracks. (2) Pimlico S.W.1. (3) Gilbert Ash Ltd., 2 Stanhope Gate, London, W.1. (4) £2,250,000.

LONDON, W.C. (1) Large new hotel. (2) Russell Square and Guildford Street. (3) Mullen & Lumsden Ltd., Eagle Street, London, W.C.1. (4) £1,000,000.

MANCHESTER. (1) Completion of stage 3 of rebuilding of London Road station—to be known as "Piccadilly". (3) William Townson Ltd., Higher Swan Lane, Bolton. (4) £500,000.

NEWCASTLE-ON-TYNE C.C. (1) Stage 4 of the Rutherford College of Technology. (3) John Laing & Son Ltd., Mill Hill, London, S.W.7.

ROMFORD B.C. (1) Two 11-storey blocks of 53 flats. (2) St. Andrew's Road, etc. (3) Wates Ltd., 1258 London Road, S.W.16. (4) £258,462.

SHEFFIELD C.C. (1) Construction of next phase of the wholesale fruit, vegetables and fish market. (2) Darnall. (3) Spooners (Hull) Ltd., Glebe Road, Stoneferry, Hull.

SHEFFIELD REGIONAL HOSPITAL BOARD. (1) Radiotherapy department. (2) St. George's Hospital, Lincoln. (3) C. R. Price Ltd., Barnsley Road, Doncaster.

SUNDERLAND B.C. (1) Erection of 336 houses. (2) Town End Farm estate. (3) L. W. Evans Ltd., Norfolk Street, Sunderland.

SWANSEA B.C. (1) Erection of two buildings. (2) Technical College, Mount Pleasant. (3) John Laing & Son Ltd., Mill Hill, London, N.W.7. (4) £132,239.

WESTON-SUPER-MARE B.C. (1) Housing, flats and maisonnettes. (2) Bournville Estate. (3) John Laing & Son Ltd., Mill Hill, London, N.W.7. (4) £109,432.

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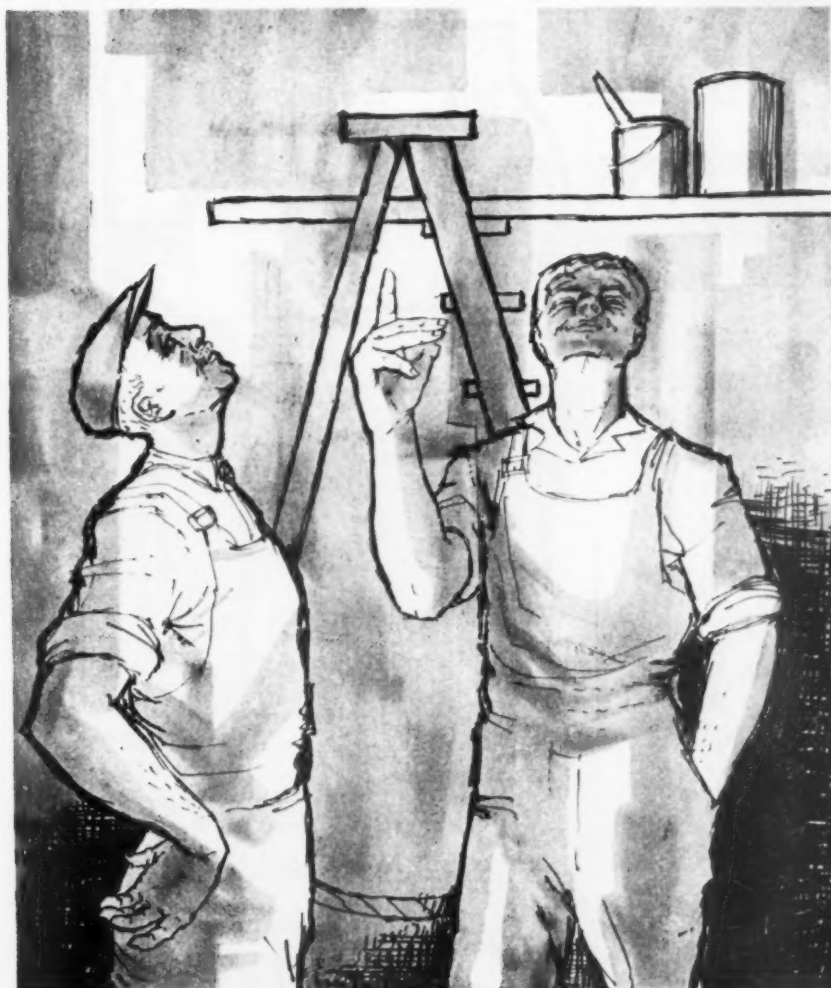
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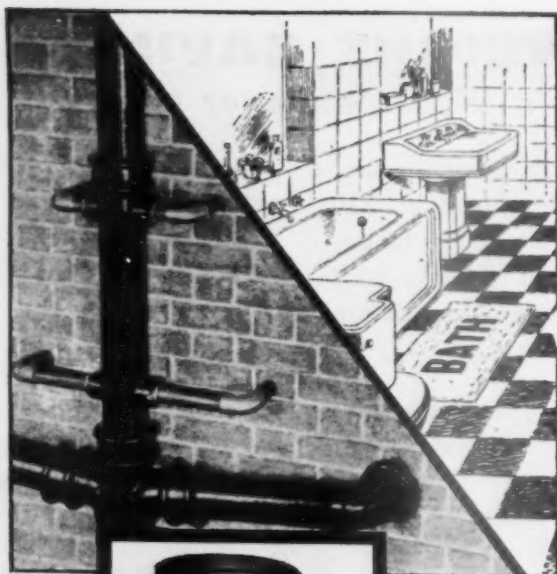
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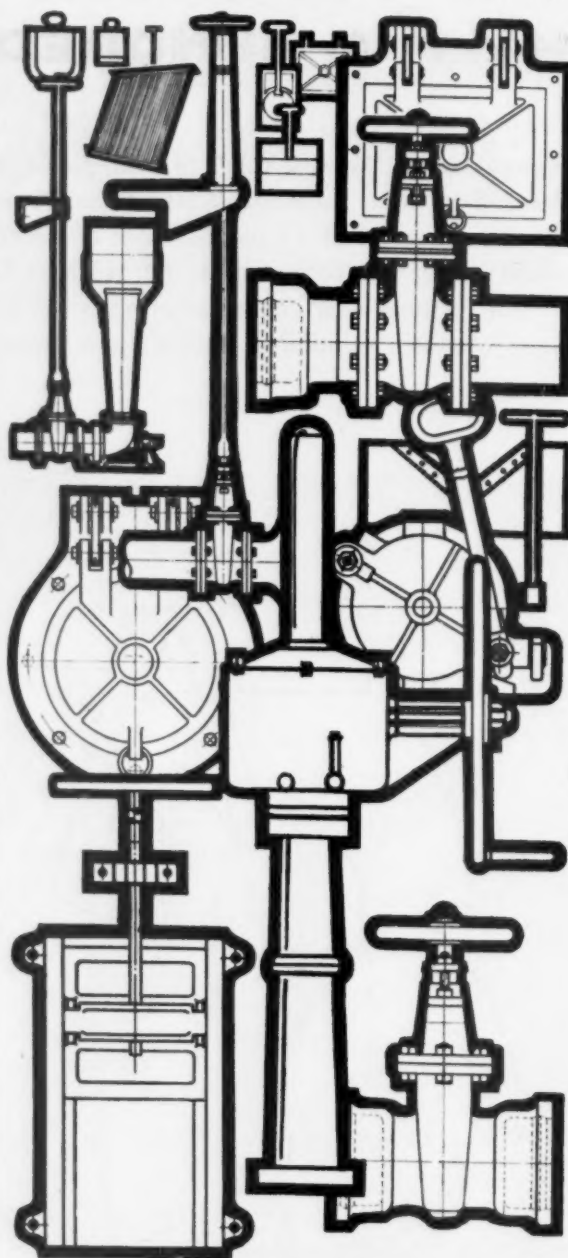
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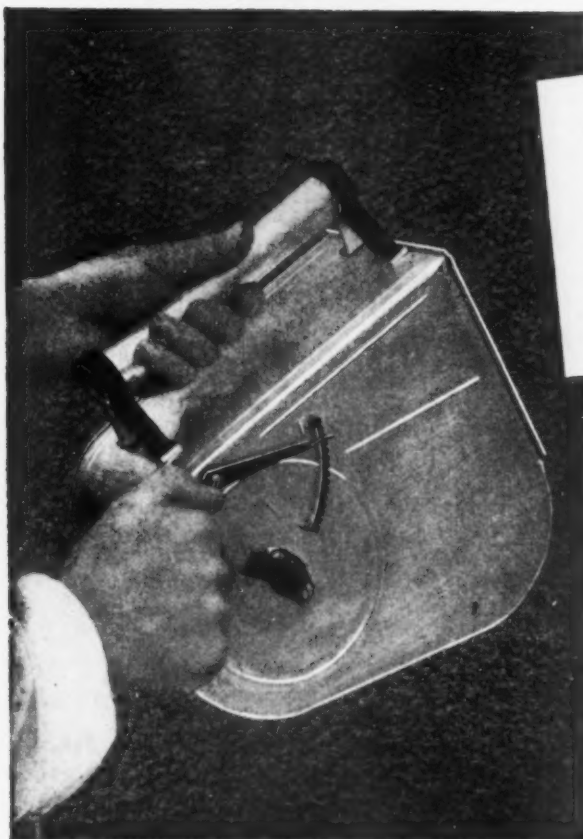
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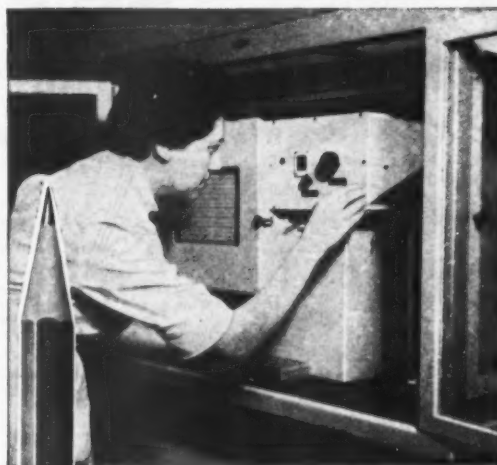
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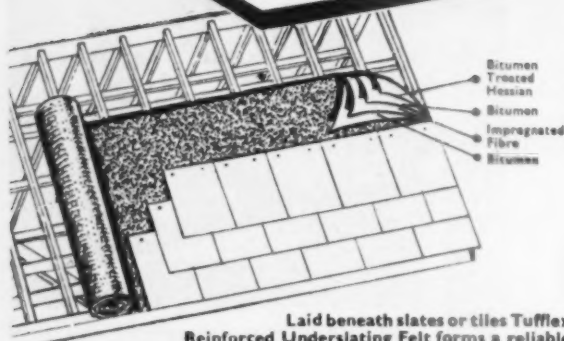
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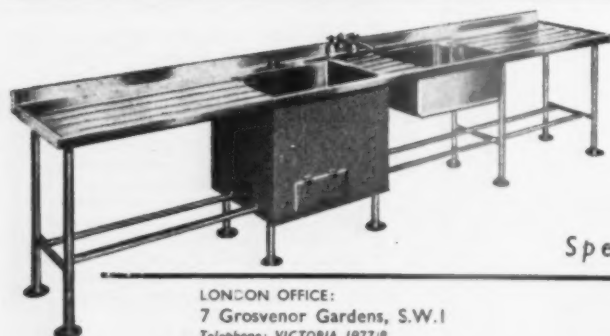
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Vacancy No. 5. **Assistant Mechanical or Electrical Engineers.**

A university degree in Mechanical Engineering or Graduate Membership of the Institutions of Mechanical or Electrical Engineers, London, together with at least five years' experience since commencement of pupillage. Commencing salaries £870 up to £1,060 p.a.

Vacancy No. 6. **Assistant Building Services Engineers.**

Graduate Membership of the Institution of Heating and Ventilating Engineers, London, with at least five years' experience since commencement of pupillage. Commencing salaries £870 to £1,060 p.a.

Experience is necessary in the design and installation of services or equipment for one or more of the following: heating and ventilating, air conditioning, hot and cold water or sewerage services, laundries, kitchens, boiler houses, lifts and other mechanical services in offices, schools, hospitals, hotels, telephone exchanges, printing works, defence establishments, etc. All appointees will be required to undertake work of this nature.

Applicants must be resident in the United Kingdom or Eire and have fulfilled National Service obligations.

Inquiries, mentioning this publication and stating the Vacancy Number and the position sought, should be addressed to the High Commissioner for New Zealand, 415 Strand, London, W.C.2. Full details of duties, experience required, general information on the conditions of employment in the New Zealand Public Service and application forms will then be supplied. [5971]

Borough of Walthamstow

Borough Architect's Department
WALTHAMSTOW is a municipal borough within the County of Essex, population 114,000; rateable value £1,747,737. It is a progressive authority and there is a large programme of interesting architectural and redevelopment schemes to be undertaken.

Applications are invited for the undermentioned vacancies on the permanent staff of the Borough Architect:

(1) **Four Assistant Architects**, APT I-II (£610/£880).

(2) **Assistant Building Inspector**, APT I (£610/£756).

The above salaries do not include the London Weighting allowance.

Applicants should have the appropriate qualification.

The successful candidate for post (2) will be required to assist in the examination of all plans submitted in compliance with Building Bye-laws, and in inspection of work as required under the Bye-laws.

The Council will make 100 per cent advances to successful applicants for house purchase in this or adjoining boroughs.

Application forms may be obtained from the undersigned.

Closing date: January 22, 1960.

G. A. BLAKELEY,

Town Clerk.

Town Hall,
Walthamstow, E.17. [6007]

London County Council

ARCHITECTS

(up to £1,135)

REQUIRED for Housing, Schools and General Divisions. Full and varied programme of new work including schools, multi-storey flats and town development. Starting salaries according to qualifications and experience.

Particulars and application form from Hubert Bennett, F.R.I.B.A., Architect to Council, FK/113/59, County Hall, S.E.1. (2630.) [0837]

APPOINTMENTS (cont)

Lanark County Council

SENIOR ASSISTANT ENGINEER

REQUIRED for County Housing Architect and Engineer's Department, Hamilton. Salary scale: £1,145/£1,310. Must be fully qualified and have experience in the preparation of surveys, design, and control of road construction work for new housing development and redevelopment. Superannuation. Medical examination. No canvassing.

Applications, stating age, qualifications and experience, together with names and addresses of two referees, to County Clerk, P.O. Box 1, Glasgow, within 14 days of date of advertisement. [5974]

Lanark County Council

APPLICATIONS are invited from fully qualified Architects for appointment to the following posts in the County Housing Architect's Department, Hamilton:

(a) **Senior Architect** to act as group leader. Salary scale: £1,310/£1,425.

(b) **Senior Assistant Architects**. Salary scale: £1,145/£1,310.

(c) **Assistant Architects**. J.I.C. Salary scale: £795/£1,075.

(d) **Architectural Assistants**. Salary scale according to qualifications and/or experience.

Applicants for posts (a), (b) and (c) must be fully qualified A.R.I.B.A. and have experience in preparation of comprehensive layouts for areas of new development and redevelopment: design and construction of multi-storey flats and maisonettes, shops and other ancillary buildings.

Applicants for post (d) should be A.R.I.B.A. Intermediate or have had good architectural experience.

Superannuation, medical examination, no canvassing.

Applications, stating age, qualifications and experience, together with names and addresses of two referees, to County Clerk, P.O. Box 1, Glasgow, within 14 days of date of advertisement. [5973]

County Borough of Grimsby

Borough Surveyor and Architect's Department

ARCHITECTURAL ASSISTANTS

APPLICATIONS are invited for the following appointments on the permanent staff of the department:

(a) **Senior Architectural Assistant**, Grade APT IV. Salary £1,065 rising to £1,220 per annum.

(b) **General Architectural Assistant**, Special Grade. Salary £785 rising to £1,070 per annum. The appointments will be subject to the Conditions of Service of the National Joint Council, terminable by one month's notice on either side, and to the provisions of the Local Government Superannuation Acts. The successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications, present and past appointments, and details of experience, together with the names and addresses of two referees, must be suitably endorsed and delivered to the undersigned not later than first post on Monday, January 25, 1960.

J. V. OLDFIELD, L.R.I.B.A.,

Borough Surveyor and Architect.

Municipal Offices,
Grimsby.
January, 1960. [5984]

County Borough of Great Yarmouth

Schools Architect's Department

APPLICATIONS are invited from Associate Members of the R.I.B.A. for a Senior Assistant Architect within APT IV (£1,065/£1,220).

Candidates must have a thorough knowledge of school design, construction and contract administration with at least five years' experience.

Housing accommodation will be available to the successful candidate if married. Assistance with removal expenses may be made in suitable cases.

Full details of present and past appointments, age, qualifications and experience, together with the names of two referees should reach the Schools Architect, 22 Euston Road, Great Yarmouth, by January 22, 1960.

D. G. FARROW,

Chief Education Officer.

22 Euston Road,
Great Yarmouth. [5989]

APPOINTMENTS (cont)

SYDNEY GREENWOOD, A.R.I.B.A., Chief Architect, John Laing and Son Ltd., requires Senior Architects, Architects and Architectural Assistants in all grades to work on a wide range of projects in an office that is continually expanding. Salaries will be commensurate with experience. Senior Architects should be Associates, R.I.B.A., and have some years' experience in one or more of the types of project listed below. They should be able and imaginative designers with competence in project management.

Architects and Architectural Assistants are required in all grades.

Projects in hand include:

Major commercial developments.
Industrial projects including factories, laboratories, etc.

Multi-storey dwellings.

Schools.

Housing.

Proprietary systems.

Staff are also required to work with the Development Architect in the Research and Development Division.

The office offers opportunity for advancement and for close collaboration with all other branches of the building industry.

Applicants should apply in the first instance to Personnel Manager (Ref. AA3), John Laing and Son Limited, Building and Civil Engineering Contractors, London, N.W.7. [6002]

City of Birmingham

FOLLOWING a review of the Department's establishment, the City Architect's Department is now in a position to invite applications from Qualified Architects for appointments at commencing salaries, according to experience and capabilities, within the following Grades:

(a) **APT V** (£1,220/£1,375) per annum.

(b) **APT IV** (£1,065/£1,220) per annum.

(c) **Special Scale** (£785/£1,070) per annum.

A large new Exhibition Hall with multi-storey car park and other public buildings, forming part of the new Civic Centre plan, are included in a building programme which also comprises Schools, Technical Colleges, Colleges of Further Education and Schemes of Comprehensive Housing Development, including tall blocks of dwellings, shopping centres and ancillary buildings.

A great opportunity exists for enthusiastic and imaginative architects who wish to assist in work of such architectural importance.

Pension scheme. Five-day week. Medical examination.

Applicants stating appointment applied for, age, present position and salary, qualifications, experience and two referees to reach the undersigned by January 29, 1960.

A. G. SHEPPARD FIDLER,

City Architect.

Civic Centre,
Birmingham, 1. [6010]

Welsh Regional Hospital Board

Regional Architect's Department

PRINCIPAL ASSISTANT QUANTITY

SURVEYOR

APPLICATIONS invited from Corporate Members of the Royal Institution of Chartered Surveyors for the post of Principal Assistant Quantity Surveyor (Grade D). Salary is £1,235 on commencement with increments of £65(1), £45(4) and £30(1)—£1,510. (Salary scales now under review.)

The person appointed must have extensive professional experience in the preparation of Bills of Quantities, and Final Accounts, Site Measurement and Valuation for Interim Certificates on architectural and engineering projects, and will be responsible for such work throughout the Welsh Region.

He will also be responsible for the control of the Quantity Surveyors Section in the Department and the training of junior staff.

Applications stating age, experience, qualifications and present position and salary, with the names of two referees to the Secretary, Welsh Regional Hospital Board, Temple of Peace and Health, Cathays Park, Cardiff, within 14 days of the appearance of this advertisement. [6021]

Classified advertisements continued overleaf

MISCELLANEOUS SECTION

RATE: 1/9d per line, minimum 3/6d, average line 6 words. Each para charged separately. Advertisements for Situations Wanted are accepted at the specially reduced rate of 6d. per line, minimum 1/6d.

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

SEMI-DISPLAY Advertisements with centralised lines are charged at 25/- per inch, and pro rata, minimum half inch.

PRESS DAY, Monday. Remittances payable to Messrs. Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

No responsibility accepted for errors

APPOINTMENTS (cont)

Rate: 25/- per inch and pro rata, minimum half inch.

Government of Uganda ARCHITECT Public Works Department

FOR general architectural duties over a wide range of building projects under the supervision of the Chief Architect. Contract appointment for one tour of 30-36 months. Salary range £1,194/£1,863 a year. Gratuity of 13½ per cent of aggregate emoluments payable on satisfactory completion of contract. Free passages.

Candidates must be A.R.I.B.A. and between 25 and 35.

Write Director of Recruitment, Colonial Office, London, S.W.1, giving full names, age, qualifications and experience quoting BCD 112/9/012/E.1. [6011]

ARCHITECTS AND MAINTENANCE SURVEYORS

PENSIONABLE posts for men and women at least 25 and under 35 on 1.1.60 (extension for Regular Forces Service, Overseas Civil Service, Established Civil Service and Temporary Government Service as Architect or Maintenance Surveyor). Candidates must be Registered Architects or, alternatively, for Maintenance Surveyor posts, have achieved Corporate Membership of R.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate Membership. Starting salary (men, London) from £830/£1,125 according to age. Scale maximum (London) £1,300. Promotion prospects. Write Civil Service Commission, 17 North Audley Street, London, W.1, for application form quoting S60-61. [6015]

Welsh Regional Hospital Board

APPLICATIONS from Registered Architects for two posts of Assistant Architect (one of which is temporary) on staff of Regional Architect, 7 Museum Place, Cardiff, at a salary of £730 x £25(2) x £30(2) x £35(5) x £40(1) to £1,055. Age and experience can be taken into account in fixing the commencing salary.

Applicants must be Registered Architects and be well experienced in the preparation of scale working drawings, details, specification, surveying levelling and the supervision of contracts. The appointment (terminable by one month's notice notice on either side) will be subject to National Health Service Regulations and a successful medical examination.

Applications, giving full details and the names of two referees to Secretary, Welsh Regional Hospital Board, Temple of Peace, Cardiff, within 14 days of appearance of advertisement. [6020]

THE NEWLY ESTABLISHED ARCHITECTS DEPARTMENT

of a large Contracting Organisation requires, in London

ARCHITECTURAL STAFF

at all levels up to Group Leaders in charge of projects, for design work on an anticipated programme of major developments of varying types, and for the subsequent preparation of working drawings and supervision of works on site.

Great scope for advancement is available to competent men.

All permanent appointments will qualify for inclusion in the organization's Superannuation scheme.

Please write to Box No. DL8024, c/o White's, 72 Fleet Street, London, E.C.4, detailing age, experience, qualifications and salary range.

All communications will be acknowledged and treated as confidential.

ARCHITECTURAL APPOINTMENTS VACANT

Rate: 1/9 per line, minimum 3/6, average line six words.

ARCHITECTURAL ASSISTANTS of Final and Inter-standard required for work on industrial buildings. Excellent opportunities in an expanding London office. Apply stating age, experience and salary range, to the Chief Architect, Nuclear Civil Constructors, 52-55 Carnaby Street, London, W.1. [0820]

ARCHITECTURAL ASSISTANT, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079]

ARCHITECTURAL ASSISTANT, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080]

ARCHITECTURAL ASSISTANT at Final standard required by Buckinghamshire office. Interesting and varied work with scope for initiative and responsibility. State age, experience and salary required to Box 5143. [0136]

ARCHITECTURAL ASSISTANT required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1. [0196]

ARCHITECTURAL ASSISTANTS, Senior and Junior, required by firm in High Wycombe for commercial and industrial schemes. Scope for responsibility and experience. Five-day week. Write Box 5793. [0999]

ARCHITECTURAL ASSISTANTS required. R.I.B.A. Intermediate standard with some office experience. Varied and interesting work. Five-day week. Good salaries for keen and competent people. William Crabtree, F.R.I.B.A., 8 Robert Adam Street, W.1 (WELbeck 9909). [6000]

ARCHITECTURAL ASSISTANTS, Intermediate and Final standards, required in Architect's Department for work in connection with flat, maisonette, shop and housing developments throughout the country. Applicants must be competent draughtsmen with contemporary outlook. Good salary and prospects. Pension scheme in operation. Apply: Architectural Department, Davis Estates Ltd., 346/350 Kilburn High Road, N.W.6. [6018]

ARCHITECTURAL APPOINTMENTS VACANT (cont)

ARCHITECTURAL ASSISTANT, Intermediate standard. Office Westminster. Good prospects and commencing salary. Box 6799. [6004]

The Royal Infirmary of Edinburgh and Associated Hospitals

ARCHITECTURAL ASSISTANT

APPLICATIONS are invited from candidates holding the Intermediate Certificate of the R.I.B.A. and having practical experience. Varied and interesting work. Starting salary £525/£605 per annum according to age and experience. Apply in writing to Personnel Officer, Royal Infirmary, Lauriston Place, Edinburgh, 3. [5998]

ASSISTANT ARCHITECT wanted immediately. Must have A.R.I.B.A. or equivalent qualification, and preferably some experience in industrial architecture. Should have good knowledge of modern constructional methods and materials and contract procedure. Age preferably 25 to 30. Starting salary offered in range £644 to £1,000.

Architectural Assistant wanted immediately. Must have passed Intermediate examination of the R.I.B.A. or equivalent, and be a quick and accurate Draughtsman. Starting salary will be between the range of £11 per week at the age of 21 and £13 15s per week at the age of 27. Candidates should preferably be within these age limits.

Candidates for either of these positions should immediately submit an application giving full particulars in chronological order of education, training, posts held, and salary of the last one to: The Chief Engineer, Arthur Guinness Son & Co. (Dublin) Ltd., St. James's Gate, Dublin; also, if asked to attend for interview at Dublin, all expenses will be paid. [6005]

Birmingham Co-operative Society Limited

ARCHITECTURAL ASSISTANT required. Intermediate to Final standard. Some experience in modern shop fitting would be an advantage. Salary by arrangement. Apply giving full details of qualifications, age, experience to Personnel Officer, Birmingham Co-operative Society Ltd., Castle Street (off High Street), Birmingham, 4. [6001]

BOROUGH OF WATFORD

WATFORD is a pleasant, thriving town in South-West Hertfordshire, in the Green Belt and with easy access to the open country. Although within easy reach of London it has a distinct civic consciousness and cultural, shopping, educational and transport facilities are excellent.

The Corporation has a large number of projects in hand and envisaged, including Swimming Bath. Library extensions. Multi-storey buildings. Flatted factories and housing expansion of the Borough Engineer's Surveyor's and Architect's Department is contemplated to handle these schemes.

Applications are invited from suitably qualified candidates for:

(a) **Assistant Architects**. Salary within Grade Special plus £70 per annum Special Responsibility Allowance. (Maximum salary £1,140 per annum.)

(b) **Architectural Assistants**. Salary within Grades II/III APT (£765/£1,065).

(c) **Architectural Assistants**. Salary with Grades I/II APT (£610/£880). Assistants appointed to posts (a) will be Section Leaders for various projects and will carry a considerable amount of responsibility.

Commencing salaries will be commensurate with experience and ability and housing accommodation will be provided for those requiring it.

Applications to be sent to the undersigned not later than January 27, 1960.

F. C. SAGE, A.M.I.C.E., M.I.Mun.E., Reg. Architect.

Borough Engineer, Surveyor and Architect.

Town Hall,
Watford,
Herts.

ARCHITECTURAL APPOINTMENTS VACANT (cont)

BANFF COUNTY COUNCIL requires Assistant Architects on salary scale £795 x £35—£1,075 if A.R.I.B.A., and on J.I.C. (Scotland) Executive and Administration scales if not fully qualified, with placing appropriate to age and experience. Knowledge of school work preferred. Applications stating age, qualifications, experience and any other relevant information together with three recent testimonials to be sent to A. M. Wilson, A.R.I.B.A., County Architect, 13 Cluny Square, Huckle, on or before January 22, 1960. [6016]

BASIL SPENCE AND PARTNERS require qualified and experienced Architects to fill positions of responsibility on a major building programme. Write to 48 Queen Anne Street, W.1, stating experience and salary required. [6013]

COVELL & MATTHEWS

require
capable and enthusiastic
Senior and Junior Assistants
to work on large central area redevelopment projects
Salary according to experience
Five-day week
Ring REGent 2291 [5951]

ELIE MAYORCAS requires Senior Assistants with minimum of three years' office experience in this country. Write, giving particulars of architectural education and experience, and salary required, to: 13 David Mews, Baker Street, W.1. [6012]

INTERMEDIATE standard Architectural Assistant required immediately for work on exhibition and ancillary buildings. Write giving details of age, training and experience, if any, to the Staff Architect, Olympia Limited, Kensington, London, W.14. [6040]

LYONS, ISRAEL & ELLIS require Intermediate standard Assistants. Applicants please state age, training and experience, to L. I. & F., 43 Portland Place, W.1, or phone LAN 2791. [6019]

SENIOR AND JUNIOR ARCHITECTS' ASSISTANTS. Final and Intermediate standards, required at the North London office of a property investment company. Interesting estate redevelopment. Applicants must have sound knowledge and experience of building construction and design of domestic architecture, surveys, specifications, site supervision and L.B. Acts.
Salaries: £1,000 Senior post, £650 Junior post.
Apply Box 6780. [6008]

ARCHITECTURAL APPOINTMENTS VACANT (cont)

SENIOR ARCHITECTURAL ASSISTANTS, and Juniors up to about Intermediate standard, required for varied industrial and commercial work in West End office. Scope for initiative and advancement. Salary from £500 to £1,000, according to age and experience. Five-day week. Write giving full details to Box 6379. [0888]

SENIOR ASSISTANT, A.R.I.B.A. or Final standard, required for London architects' office. Interesting and varied practice. Salary £900 to £1,000 according to experience. Five-day week. Telephone WHI 2552 or write Box 6735 "The Architect & Building News", for appointment. [0754]

VERNER REES, LAURENCE & MITCHELL require Assistants for work on university projects. Please telephone PARK 3900 for interview or write to 37 Holland Villas Road, W.14. [5999]

WILLIAM J. COX (Sales) LTD. of London and Tring—the Acrylic Rooflight Manufacturers—have vacancy for young man, preferably with drawing office experience. Subject to suitability, he will be offered a permanent and responsible position connected with sales and development of rooflights. Starting salary in accordance with experience, but not less than £700 p.a. Write to Managing Director at 559 Holloway Road, N.19. [5995]

YORKE, ROSENBERG & MARDALL require Section Leaders for work on universities, schools, hospitals and technical colleges; starting salaries from £1,200 p.a., three to four years' experience desirable. Applicants please state age, training and experience to Y.R.&M., 2 Hyde Park Place, W.2, or ring AMB 4521. [5993]

YORKE, ROSENBERG & MARDALL require Assistant Architects; starting salaries from £750 p.a. Applicants please state age, training and experience to Y.R.&M., 2 Hyde Park Place, W.2, or ring AMB 4521. [5994]

SITUATIONS VACANT

ARCHITECT, near London, requires experienced and qualified Executive Assistant. Ability to undertake responsibility and hard work would be rewarded. Give details, commitments and age to Box 6801. [6014]

DRAUGHTSMAN/BUILDING SURVEYOR required in Chartered Surveyor's London office. Five-day week. Salary £700 per annum. Apply Box 6781. [6009]

SITUATIONS VACANT (cont)

EXPERIENCED SURVEYOR required for busy architect's office. Able to prepare specifications, check accounts, etc., and to run technical library. Interesting work. Salary according to ability. Five-day week. HUNter 0451. David Stern & Partners, W.1. [6017]

WORK WANTED

BUILDER and Decorator, A. G. Davenport, 274 Downham Way, Downham, Kent, Lee 8796. Keenest prices for all types of interior and exterior decorating. Try us! [6006]

ENQUIRIES invited for manufacture of builders' engineering items—steel trusses, steel doors, etc., particularly in specialist work. Keen prices and quick delivery. Burley's, Weybridge, Surrey. Byfleet 4111. [5650]

EXCAVATION sub-contracts, site development, overburden removal, clay getting, earth dam construction, etc. Technical staff available to analyse programme and price complex projects. Particular attention given to finish and compaction. D.9, D.8, TD.18 and TD.14 scrapers, excavators, loading shovels and lorries available with competent and imaginative supervision for execution of work. Also interested in overseas projects calling for not exceeding 10,000 yd per week output. Dick Hampton, Blacknest, Alton, Hants. Tel.: Bentley 2241. [0334]

G. BARTER & CO., Industrial Decorative Spray and Brush Painters (labour only on contract). We supply equipment, 1a Whetton Way, Hounslow, Middlesex. HOUnslow 9615, SOUTHall 3815. [0083]

ARCHITECTURAL CARVINGS

CARVINGS, architectural (composition) for built-in furniture, wall panelling, etc. Variety of 2,000 different types of varying periods. On view at showroom, Michael Shavelson, 105/107 Brick Lane, E.1. Regret no catalogues. Telephone: BIS 0225. [5793]

MISCELLANEOUS

REFRIGERATED SHELVES for bottle cooling; beer and wine coolers, etc., for hotel, catering and licensed trades, supplied and installed. G.V.E. Ltd., 231 Strand, W.C.2. FLE 5947. [0813]

EDUCATIONAL

CANDIDATES PREPARED FOR R.I.B.A. Supplementary tuition and Revision Courses also arranged in any subject. Write to the Principal (A. B. Waters, F.R.I.B.A., F.I.Arb.), Ellis School of Architecture, 103c Old Brompton Road, London, S.W.7, or to Albany House, Worcester. [0084]

AGENCIES WANTED

AGENCIES REQUIRED by old-established firm with good address in London. Existing connections are with builders merchants and the coal trade but would consider other types of business. Representatives cover Greater London and Southern England. Preliminary details to Box 6800. [6013]

STEEL SHELVING

STEEL SHELVING for shops, offices, factories, etc. Green, grey or white. Shelf sizes from 6in by 33in to 24in by 36in. Heights: 6ft, 7ft or 8ft. It costs less from Surfix Ltd., Fosco Works, Amberley Road, W.9. CUN 8769. [0530]

BUSINESS & PROPERTY

WEST WITTERING, SUSSEX. Detached modern residence by well-known architect: three bedrooms, lounge, kitchenette, car-port, central heating, luxury fittings throughout. £5,250. Full details Terry & Co., Bracklesham Lane, Wittering (Bracklesham 368). [6022]

ARCHITECTURAL ASSISTANTS

Due to our continued expansion, an extensive building development programme is in progress covering a variety of interesting projects throughout the British Isles. Vacancies exist of particular appeal to young men who have reached Inter R.I.B.A. standard or equivalent. They will be given every encouragement to exercise initiative and acquire wider experience in a well-established department.

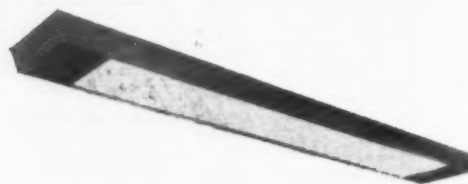
A salary of £850 p.a. upwards will be paid depending on experience. A five-day week is in operation, and Staff Life Assurance and Pension Scheme.

Applicants should apply in writing to:

Employment Manager (Ref. AA/2/ABN), Littlewoods Mail

Order Stores Ltd., Spinney House, Church Street, Liverpool X

**Designers and
Manufacturers of
Fluorescent Lighting
Fittings for Industrial,
Commercial and
Decorative purposes**



Price: 5ft 80W Twin Fitting, £17 7s 6d, purchase tax £2 2s



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showing full range of designs
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The NORFOLK

An attractive fitting with all metal
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This fitting has a depth of only
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where a recessed fitting cannot be
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INDEX TO ADVERTISERS

Official Notices, Tenders, Auctions, Legal and Miscellaneous Appointments on pages 61, 62 and 63

Air Control Installations Ltd....	50	Cozens Ventilators Ltd.....	51	Horsell Electrics Ltd.....	64	Richardson & Starling Ltd.	51
Aldam, E. Hill, & Co. Ltd.....	3	Crappier, Thomas, & Co.	51	Hotchkiss Engineers Ltd.....	51	Rubber Improvements Ltd.	37
Aluminium Building Components Ltd.	1	Crittall Aquafont Group Ltd.	42	Janitor Boilers Ltd.	19	Rubery Owen (Heating) Ltd.	15
Ames Crosta Mills & Co. Ltd....	56	Crittall Mfg. Co. Ltd., The	41	Kenyon, Wm., & Sons Ltd.	59	Shell-Mex & BP Gases Ltd.	5
Associated Metal Works (Glas- gow) Ltd.	60	Dampcoursing Ltd.	51	Kingfisher Ltd.	30	Shutter Contractors Ltd.	54
Atlas Lighting Ltd.....	45	Donne, Colin	60	Laconite Ltd.	58	Sound Control Ltd.	8
Austin, Jas., & Sons (Dewsbury) Ltd.	27	Esavian Ltd.	39	Light Steelwork Co. Ltd.	51	Staedtler, J. S., Ltd.	59
Batley, E., Ltd.	44	Farmer, S. W., & Son Ltd.....	12	London Sand Blast Decorative Glass Works Ltd., The.....	30	Stic B Paint Sales Ltd.	58
Berite Ltd.	32	Fordham Pressings Ltd.....	21	Lyttag Ltd.	47	Stonhard Co. Ltd.	44
Beynon, T., & Co. Ltd.	OBC	Formica Ltd.	36	Mander Brothers Ltd.	55	Stramit Boards Ltd.	11
Bilston Foundries Ltd.	22	French, Thomas, & Sons Ltd.	2	Minton Hollins Ltd.	51	Sundeala Board Co. Ltd.	20
Board Processors Ltd.	31	General Electric Co. Ltd.....	17	M.K. Electric Ltd.	18	Surflex Flooring Co. Ltd.	60
Briggs, William & Sons, Ltd....	60	Gimson & Co. (Leicester) Ltd.	51	Noelite Ltd.	54	Teleflex Products Ltd.	6
British Bitumen Emulsions Ltd.	42	Gordon, J. R., & Co. Ltd.....	48	Paniquit (Sales) Ltd.	10	Thermacoust Ltd.	40
British Celanese Ltd.....	32	Granwood Flooring Co. Ltd.	35	Paramount Asphalt Ltd.....	53	Thorp, J. B., Ltd.	51
British Paints Ltd.....	IFC	Hall, J. E., Ltd.	29	Park Cross (Merchants) Ltd....	54	Tretol Ltd.	34
British Lead Mills Ltd.	14	Hammond & Champness Ltd....	4	Permanite Ltd.	46	Tubewrights Ltd.	9
British Plumber Ltd.	7	Harris & Sheldon (Electrical) Ltd.	53	Phoenix Rubber Co. Ltd.....	12	Tyrol Sales Ltd.	57
Brunner Ltd.	60	Heatavent Electric Ltd.....	27	Pilkington Bros. Ltd.....	33	Ventor Terrazzo & Mosaic Co. Ltd.	51
Burn Bros. (London) Ltd.....	56	Hermes Supply Co. (London) Ltd.	28	Plyglass Ltd.	25	Vulcanite Ltd.	51
Cement Marketing Co. Ltd., The	IBC	Hills, F., & Sons Ltd.....	26	Q.V.F. Ltd.	16	Wallpaper Manufacturers Ltd., The	38
Coal Utilization Council	43	Hill, Aldam E. & Co. Ltd.....	3			Zinc Development Association ..	40
Coughtrie, J. & G., Ltd.....	13	Holoplast Ltd.	49				
Corder Engineering Co. Ltd....	24						

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